UNIVERSAL MERCHANT:

CONTAINING THE

Rationale of Commerce,

In THEORY and PRACTICE;

An ENQUIRY into the

NATURE and GENIUS of BANKS,

Their Power, Use, Influence and Efficacy;

The Establishment and Operative Transactions

OF THE

Banks of London and Amsterdam,

Their CAPACITY and CREDIT calculated and compared:

An ACCOUNT of the

BANKS of Hamburgh, Nuremberg, Venice, and Genoa,
Their CREDIT and COURSE OF BUSINESS;

The DOCTRINE of BULLION and COINS amply discussed; and therefrom the Course and Par of Exchange regularly deduced.

EXEMPLIFIED BY

REMARKS HISTORICAL, CRITICAL, and POLITICAL.

Wherein the BEST WRITERS, Ancient and Modern, Foreign and Domestic, are duly confidered and referred to.

Adapted equally to the USE and INFORMATION of GENTLEMEN who propose to make a Figure in Public Affairs, as to the MERCHANT, FACTOR, BROKER, and REMITTER.

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TO THE RIGHT HONOURABLE

HENRY PELHAM, Esq;

Chancellor of the Exchequer,

FIRST LORD of the Treasury,

AND ONE OF

HIS MAJESTY'S

Most Honourable Privy Council,

THIS BOOK, calculated for GENERAL USE,

Is with the Greatest Respect inscribed, by,

SIR,

Your Most Obedient Humble Servant,

William Horsley.

SIR,

HAVE the greater Pleasure in presenting this Work to your Consideration, as it is the Personnance of a Foreigner resident amongst us, who participates with us the Sweets of Liberty, and who gratefully makes us the best Returns in his Power, for the Benefit he receives from the due Execution of equal Laws, and for the Encouragement given under them to Wisdom and Virtue, the true Sources of that shining Figure we make in the commercial

DEDICATION.

mercial World; and which will always enable us to command Respect from our Neighbours.

His Views, in the reasoning Part, are to establish an universal social Maxim, That the Wealth of a Nation is the common Benefit of its Neighbours, and that where Commerce shurishes, the People neither merit Envy, nor are to be feared; as in the former, good Examples should only produce a noble Emulation, and in the latter, it is evident to ourselves, that we are not the more inclinable to warlike Enterprize for being rich and prosperous.

The Respect which Commerce commands, is very different from that which Conquest excites; in the one we make all we negotiate with our Friends; in the other, those we conquer our Enemies; the first address us with a bounteous Benevolence, the last acts with a retracting Hand; and while the one enriches us with a fixed and lasting Reputation, the other only destines us to an imaginary, or impermanent Fame, leaves our Security ever questionable and open to such secret Attacks, as a just Resentment of Injuries is capable of inspiring.

Solomon, the Scripture-celebrated King of Judea, is, so far as I understand his History, more distinguishedly illustrious for his Wisdom, in respect of the enriching his People by Commerce, than for his Success in War, Skill in Architecture, or for his philosophical or religious Writings. And I think, on this Principle, England has out-liv'd the Eclat of many fighting Empires, and London been gradually growing into Splendor, while other Capitals have suffered under the various Vicissitudes of Fortune, the natural Consequences of vain Contention, and idle Ambition; and our Race for Glory infinitely more accelerated by the Arts of Peace, than by the most eminent Acts of our warlike Ancestors.

DEDICATION.

RICHELEAU saw this, and imitated Burleigh's Conduct: If his Maxims have opened the Eyes of the French, and induced them to consider Commerce as an essential Blessing, their Emulation of the English has been truly Praise-worthy; and, from Circumstances, it seems apparent, that the Cardinal's Successors think their commercial Acquisitions much superior to the ideal Glory of Conquests; whereby in attempting to make the rest of Mankind unhappy, that Nation has been often reduced to imminent Hazards and Distresses.

All Europe seem, at present, inclining to the same Opinion; but from hence Nothing results, reasonably to be dreaded: We have hitherto led, and I hope shall always lead in Commerce, as command in Arms; nor can it be questioned, so long as our Rights and Liberties are supported by the best of Governments, our Welfare and Happiness duly attended to, and our Skill and Industry reigns supreme.

The AUTHOR, after reasoning the Reader into right Notions of Trade, where he falls into many of Mr. Wood's Sentiments, enters into an Enquiry concerning Bullion and Coins; thence to consider the Nature, Operation, and Effect of Banks in general and in particular; and these again interweaves with a critical Examination into, and Calculation of Exchanges.

His Manner of pursuing these Subjects is different from any Thing I have seen; and that it might be at once concise and perfect, and appear consentaneous with the best Judges, where there is not any evident Mistake, or where Time has made any Alteration, Sir Isaac Newton's Tables are affixed, attended with such Remarks as were necessary to illustrate and reconcile them to the present foreign Standards.

After

DEDICATION.

After confidering the Whole in the Light, as calculated for the Curious and Adepts, it was thought requifite to open the Subject to young Practitioners by an *Introduction*, and to give them an Infight into the original Nature and Properties of the finer Metals, by a Supplement.

Thus far, Sir, it seemed necessary to inform you of the Intent, not presuming to anticipate your Judgment as to the Execution; but humbly apprehend, that the Performance in a particular Manner claims your Patronage, as the AUTHOR, though an Alien by Birth, is an Englishman by Interest: And as every Man's Skill, well apply'd, assists our natural Advantages, this may, amongst others, materially contribute to the blowing up the Embers of genial Industry into a bright and permanent Flame, and which may, by its luminous Expansion over the whole Circle of the Globe, convey to distant Realms, an adequate Idea of such happy Pursuits as challenge an important Share in the Interest of the State, and in the Utility of a Free People; Commerce being to us what the Son of Polymaus was to the Theban-Greeks, the Soul of his own Country, and the Director of the Fate of all the neighbour Nations.

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INTRODUCTION.

amongst the rest in Monies. Gentlemen who deal not in the former, cannot avoid being concerned in the latter; and as they are not Dealers in any other transferable Commodities, it seems not amiss that they understand this, and for many Reasons the Nature and Value of the Bullion whence Money is coined. The Knowledge of Bullion introduces to our View the Nature and Value of foreign as well as domestic Coins; and when we understand this, the Value of Exchanges naturally ensue.

The Acquaintance with Exchanges, however it may seem to some the Business of Merchants only, in a commercial free State, salls properly under the Cognizance of Gentlemen, particularly those who have, or intend having any Share in the Legislature; and still more materially such who are in the immediate Direction of public Affairs, as without a masterly Skill in Bullion and Coin, it is impossible to understand Exchanges, whence singular Inconveniencies may happen on certain delicate Emergencies. There is not any Article of Trade in which the Gentleman should not be at least a tolerable Theorist, for many obvious Reasons; but in Bullion and Coins, whereby other Articles are usually adjusted, he should be practically skilful.

A Defect of this Knowledge has been the Cause of many Disorders in the State, resulting from the raising, depressing, or debasing the current Coin of the Kingdom; and though it has been more rare here than in some other Nations, has too often happened, and so much discomposed the common Welfare, as engaged the whole Attention * Eliz. and of two different * Reigns to rectify; and without which Rectifications our Trade would have probably been in as miserable a State as our Money.

There have been three Ways of varying the Standard; the first is when the Coins in their respective Denominations have been made current by Law, at more or less Pounds, Shillings, or Pence than formerly. The second, when such Coins have been altered in their Weight, and yet continued current at the former Rates. The third, when the Standard was either debased or enriched in the Fineness of the Gold and Silver; yet the Money retained its former Estimation.

How far this Subject has been entered into by the Learned and Skilful heretofore, will appear in due Place; but I believe the Attentive will agree, on the Perusal of the following Work, that a more critical Examination was necessary, to give it a perfect Finishing; and as what ought to be, is there clearly reconciled to Truth and Exactness: So the proper Object of this Introduction, is to shew what, through a long Series of Years, it has been, which is done to open the Understanding, and command the Reader's Attention to a Course of Reasoning that I hope will merit it.

As in deducing down the proportionate Value of Gold to Silver to the present Times, the respective Variations, Reasons thereof, and attendant Consequences, a just Light may be spread over the Body of this Work, so may it not be impertinent to observe, that an Insight may be likewise given into the Affairs of the World, which Historians have rarely thought worthy Notice, that is, from hence

hence to shew in what State of Wealth or Indigence, flourishing or decaying, this or that Country might be in the respective Periods traced, and whether, under the Care or Dictature of wise or weak Governors; but more especially as it regards this Nation, measured comparatively with others, which may the Basis, in proper Time and Place, of more extended Reslections.

A learned and judicious Author of the last Century, much Mr. VAUGHAN quoted hereafter, has well observed, "That Use and Delight, or the

- " Opinion we entertain of them, are the true Caufes why most
- " Things have an affixed Price or Value, but the Proportion of that
- " Price or Value, is chiefly governed by Scarcity or Abundance;
- " therefore, that the proportionate Value between Gold and Silver,
- " must necessarily differ in several Times and Places, according to
- " the Plenty or Rarity of the respective Metals."

There is much Variety amongst Authors, what Proportion Gold and Silver held to one another in the flourishing Ages of the Jewish State; not from the Difference of Time, but Variety of Interpretations. Bodin alledges the same Place to prove the Proportion 25 to 1, which some quote for 45 to 1, and others only 10 to 1, which last seems the more probable, as all Historians agree in the Super-plenty of Gold.

There is a Passage in Herodotus, by which it appears, that 13 Talents of Silver were valued at one of Gold in the Revenues of Darius; and there is a received Opinion, that in the Prosperity of the Gracian Common-wealths, the Proportion was 12 to 1.

PLINY reports, without mentioning any certain Time, that anciently the Romans did value a Scruple of Gold at 20 Sestertii of Silver, which, when the Sestertii was at the greatest Weight, was 20 to 1, when at the least 15 to 1.

But there is a clear Passage in the Eighth Book of that Decade of Livy, respecting an Agreement between the Romans and Ætolians, that they might pay ten Talents of Silver instead of one of Gold; and where it is said that CÆSAR, at his coming out of Gaul, brought such a Quantity of Gold, that the Proportion abated to $7\frac{1}{2}$ to 1, is not credible, if the Proportion of 20 to 1 were true.

In France, the Proportion down to the Time of King John, was

In Germany the ancient Proportion was 11 to 1; but in the Year 1610, 13 to 1.

In the United Provinces 1662, by a Placart it appears to have been nearest 12 \frac{2}{8} to 1; and the Proportion in Spain for some Time back about 12 to 1.

As to the Proportion of Gold to Silver, during the Times of our Saxon Ancestors, appears not any where, that I can discover, nor any Value or Account by gold Coin at all; but as there was every where Gold in Use at that Time, and as I find the Silver under the same Regulation in France and Germany as in England; under Charlemagne as under the Saxon Heptarchy, and founded on the best regulated Roman Measure under Justinian, so I conclude the Proportion of the two Metals to have been the same, or nearly alike, as at this Time all over Europe, though differing as now in the Division.

By the Emperor Justinian's Regulation, the Pound of Silver was divided into fixty Parts;

By that of CHARLEMAGNE into twenty;

And the Saxon Pound was exactly the like, confifting of xx Shillings, each of them x11 Penny-weights, xx whereof made an Ounce, and x11 Ounces or x11 Times 1 s. 8 d. the Pound.

They had likewise other Divisions which our Authorities are not so well agreed about, though they all amount to the same Thing, when calculated back into the fundamental Proportion; so it is doubted whether they had not the Pound divided into 12 and into 15 Ounces, and into 20, 48, and Lx Shillings. By ETHELRED'S Laws 15 Ora was a Pound; and Sir H. Spelman defines the Ora by Uncia, an Ounce; and Ora is, by the same Author, said to be a Piece of Money Value 16 d. and it is certain that 15 by 16 produces the same Number of Pence, as 12 by 20, 48 by 5, or Lx by 1v; and are either of them the Sum of 240 Pence, or the same Value of a Pound of Silver.

Thus, after a strict Enquiry into the Value of the Libra Anglo-Saxonica, and consulting all that's material on the Subject, the Difference of Opinions seem only to have arisen from the Variety of the Divisions, each alike capable of being arithmetically resolved into the first given Quantity of the Pound Troy; and stand here in Order:

By this and some other Circumstances, not pertinent to the prefent Purpose, it should seem that in those early Days, our Ancestors understood honest Arithmetic as well as their Posterity; as we see all their Denominations calculated into whole Numbers, and all the whole Numbers they can be calculated into.

From the Coming in of WILLIAM the Norman, to the Time of EDWARD I, we find but a very obscure Account of the State of our Coin; nor until the Reign of EDWARD III. have we any clear Authority for the Value set upon Gold, or of its Proportion to Silver, and still less of the Proportion of both to other Commodities, althor thereupon much depends as to the giving of us a fair Insight into the State and Condition of those Times, as to Trade, Wealth, Plenty, &c. though they seem to be Matters that we most want to know, in Order to a thorough Mastery of our own History; for which Reason I have given the following Table, which, amongst other Things, will evince, that the ancient and modern Proportion of Gold to Silver was not very different in the Reigns of EDWARD III. and of GEORGE

George II. But why so is Matter of further Enquiry, as it is also in respect to the Price of Labour, &c. which perhaps may appear in a new Light, and altogether contribute essentially to open the Reader's Way to the more ready understanding of the Use and Excellence of the following Performance, wherein the Doctrine of Bullion, Coins and Exchanges, the Nature, Genius, and Operation of Trade are deduced from the Fountain-head, with great Skill and Accuracy

I have only to oblewe further, that for the easier Introduction of those into this Branch of Knowledge, who may be at present Strangers thereto, that the Gold is always calculated by Carrats and Grains, 4 of which Grains make the Carrat, and 24 Carrats the Pound Troy of 12 Ounces.

The Silver is calculated by Ounces, and Penny-weights, 20 of which Penny-weights make the Ounce, and 12 fuch Ounces the Pound Troy, as above; and of other Divisions Notice will be taken in due Place. And note, that the Standard in the Table is the Quantity of Gold or Silver fine, fixed to be in it by Law.

TABLES OF GOLD and SILVER, composed from the Authority of Mr. Lowndes, who inspected the original Indentures; and from Bishop Fleetwood.

2.5	GOLI	TAB	L E.	. 11	SILV	ERT	ABL	E.
Reigns.	Specie.	Division.	Tale.	Stand.	Specie.	Tale.	Stand.	Peopor- tion.
28 E. I.		s. d.	l. s. d.	car. gr.	d.	s. d. xx 111	oz. dw.	100
18 E. III, Eodem Ann	Florens Nobles Ditto	vi viii Ditto	15 0 0 13 3 4 14 0 0	D.tto	3 43	XXII VI	Ditto	4.4
30, 37, 46 18 R. II.	Ditto	Ditto Ditto	Ditto	Ditto Ditto	Ditto	Ditto	Ditto Ditto	4
3 H. IV. 3	Ditto.				IV 11 1. 7	xxx-	Ditto	
9 H. V. 1 H. VI.	Royals Angels	VI VIII }	A CONTRACTOR OF THE PARTY OF TH	Ditto	Ditto	XXXVII VI	Ditto	
4—————————————————————————————————————	Nobles Ditto Angels	Ditto	16 13 4 Ditto	Ditto Ditto	Ditto Ditto Ditto	Ditto	Ditto Ditto	11 B
4 E. IV.	Nobles Angels	x viii	20 16 8	D'	Ditto	Ditto .	Ditto Ditto	Ž,
8, 11, 16 22, 1 R. III.						. **		1
9 H.VII.	Sovereigns	xxii vi					4	
ı H. VIII.	Royals Angels Nobles	AI AIII	1	Ditto	Ditto	xxxv —	Ditto	11 17
	{ Crowns	v	Gold. Stan 25 2 6	d. lowered.	Ditto	Silver S	Ditto	ered.
34	Sovereigns Angels Crowns	×* }	28 16 0	23 0	XII IV II I \frac{1}{2}			1 4
37 E. VI.	Ditto Ditto	Ditto	30 0 C Ditto	Ditto	Ditto	Ditto Ditto	Dit.	f Conf
3——	Sovereigns Angels	Ditto XXIV -	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	The state of the s	LXXII —	6 o Dit.	A State of Confusio
6 E. VI.	Sovereigns Angels	xxx -}	36 o d	23 31	Ditto s. s. d.	Ditto	305	A
	Sovereigns	xx — 7			d x11, v1, 111 1 ½ ¼ d.	LX -	11 1	
	Crowns	\[\frac{1}{V} \frac{1}{N} = \frac{1}{N} \]	33 0 0	22 0			1	

	GOLI	DTAB	L E.		SILV	ERT		A STATE OF THE STA
Reigns.	Specie.	Division.	Tale.	Stand.	Specie.	Tale.	Stand.	Proportion.
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2 ELIZ.	Sovereigns Royals	***=}		23 3 2	v1 1v 1117	Old Stan	dard.	
63	Angels Sovereigns	xx }	33 0 0	22 0	11 1 1 4	Lx	11 2	11 16
19	Crowns Angels Nobles	x v		23 3½ 23 3½	Ditto	LX	11 2	
35	Sovereigns Crowns	xx ==}	THE REAL PROPERTY OF THE	22 0	s. s. d. d.)	-	7.	
43	Angels	x —	36 10 0	23 31	v 26 x11 d.	LXII —	11 2	
- 19	Sovereigns Crowns	*x =}	33 10 0	22 0	VI II 1 1 1 2			
2 JAC. I.	Unites Double Crow.	xx = 1		22 0	Ditto	Ditto	11 2	
	Britain Crow. Thiftle Crow. Royals	v	,					
10-	Angels Ditto	x — }		23 3½ Dit.				
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	Unites	xx			vi ii 1 ½	LXII -	11 2	
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22	Guineas 1 Guineas 2 Guineas	$\begin{bmatrix} xx & - \\ x & - \end{bmatrix}$	44 10 0	22 0	Ditto	TXII -	- 11 2	14 54
ı Jac. II.	5 Guineas Ditto	C Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	
1 W. M.	present Tin	nes, 22 Carrats	fine and 2	Alloy is t	of the Gold of he Pound of Go	ld, and 11 oz	. 2 dw.	
Q. Ann	Pound Gold	d continues the	fame; tha	t is to fay	of Silver; and , into 44 Guine the Guineas hav	as 1, and the	e Silver	15 21
GEOR. I.	minal Valu	ent Value; but	nes, rifing u	p to xxx been red	Shillings, and a	declining to eir intended I	evel of	
Geor. II.	or 11. 16s.	it appears to	be better we	orth xxi S	d with the Portugations.	gal Pieces of	31. 125.	

1. 3.	to the lb. Troy	7.		4
Portugal 3 12	- 13	46 1	6	0
English Guineas 1 1	44 1	46 1	4	6
		0	ı	6
And the Portugal Standard worse 4 Grain		. 0	2	6
Total worse lb. Troy by Standard and Tale		0	4	0

This, with the Difference in Point of Exactness in coining, wherein the Portugal is much more defective than the English Coin, may be very good Reasons for their being refused in Payments in any of the Receipts of the public Revenue, but answer very well the Purpose of those who benefit by the Irregularity in trading with the heavier, and passing off the lighter by Tale, and which, if they can turn into Guineas or heavy Silver, make another Gain.

However, for the Satisfaction of the Reader, and that all may be known on this Subject that is requisite to the perfect Mastery of the Doctrine of Bullion and Coins, and how our Standard is proportioned to that of other Countries, and thence what the true Par of Exchange is between us, I refer to the Tables of Sir Isaac Newton, and the Explanations thereupon, and his Representation afterwards to the Lords of the Treasury upon our Coin, quoted in the following Treatise, and annexed to the same, with some Remarks, and an Abstract of the Indenture made with the Master of the Mint.

As Coin is made out of Bullion, and as either is more scarce or plenty, so are they valued in Proportion to other Commodities, and are barterable for them. From hence, and from the intrinsic Worth of Coin or Bullion, that is to say, their Freeness from Mixture or Alloy, or in other Words, their Purity or Fineness is formed that Exactitude in adjusting Debts and Credits between Nation and Nation, Merchant and Merchant, or otherwise in Dealings whether at Home or Abroad, in greater or in lesser Matters. At Home a little Diffe-

rence in the intrinsic Value is not generally regarded; for so long as any Coins will pass currently from Hand to Hand, as the Portugal Gold does here in small Matters, the Difference is not respected; but when Payments run high, and the Debt is well assured, then it is that Men begin to inspect and calculate; and as in Commerce between Nations the Accounts run high, so it naturally follows that those who are to receive Bullion or Coin in Return for other Commodities, enter as critically into the intrinsic Value, as those who are to pay, into the Value of other Commodities. Hence springs foreign Exchanges, and hence a curious Enquiry into the intrinsic Value of the Coins of different Countries. This shews at once, the Use of the preceding Table, and still more of one Branch of the following Treatise.

Whatever farther is to be faid on this Subject, all centers at last in intrinsic Value; for although there may be a Difference at Times and Places in the comparative Value of Gold and Silver to each other, and to other Commodities, in the incidental Expence of Returns, or in the Largeness or Smallness of the Demand; yet still the intrinsic Value governs all, so in that are only to rest it to calculate thereby, and leave all else to casual Considerations and the Judgment of the Parties concerned, who will, so long as Plenty or Scarcity of Gold or Silver, or as larger or smaller Demands occur, suit the Market thereto, and rise and fall, or to the natural Par pro pari, level Exchanges.

There is another Matter which most of the Writers on Bullion and Coins have entered into with great Warmth and Spirit, and which our Author not having constituted as a peculiar Branch of his Work, as not seeming immediately material, I shall attempt here to consider in perhaps a more informed Light, than has been generally the Case with those who, without tracing it through all its various Appearances, have been very positive in affirming or denying, or which is much the same, affirming oppositely.

The true Question, however diversify'd by Words, is, whether the having a greater Plenty of Gold or Silver, is the true and only Cause of the supposed Difference of the Price or Value of Provisions, Necessaries, and Labour? Or, in other Words, if Gold or Silver, or both, have by their Plenty lessened their former Value or Estimation, whether Labour, &c. have been proportionably adjusted thereto?

A right Solution of which Questions, instructs us in the Knowledge of the Causes, which affect our Manusactures at home, and consequently our Trade abroad, as the greater or lesser Balance depends on the Cheapness or Dearness of Labour.

been mutual, if that may be ascertained by the Proportion they have appeared by tracing them down to have bore to one another. But if it any where appears, that more Gold in Proportion was used formerly than Silver, and more Silver now than Gold in wrought Works of any Kind, out of the Course of Currency, then it will follow, that their Proportion in Currency will not evince their continuent proportional Equality. And as from all we can gather from History in very old Times, Gold seems to have been more apply'd to wrought Works than Silver; and as in the present, it is evident that more Silver is so apply'd than Gold: And as in old Times the Proportion of Silver to Gold in Currency was nearest 12 to 1, and now nearest 15 to 1, it seems evident that Gold was more plentiful formerly than Silver, and Silver now than Gold.

By ancient Times in this Place I would be understood to mean, the flourishing Ages of the Jewish State, and of the Assurance Empire. As to the Times, only five hundred Years back, or something less, we find the Proportion in Currency to differ but little; but as the Use of wrought Plate, &c. has of late greatly increased, it puts it quite out of Doubt, that Gold in Proportion was then more plenty

than

than Silver, and now Silver more Plenty than Gold, without Relation to the great Quantity, not only this Nation, but others export to the East-Indies.

As to the general Plenty of both, and how that has operated in respect to the Price of Labour, &c. is a Matter of further Consideration; and in this respect shall confine myself to England only.

Among many Writers on this Subject, the learned Author of the Chronicon Pretiosum, is not to be the least regarded, though that Book was wrote for a particular Purpose.

That learned Author has deduced down in Divisions the Price of Provisions, the Value of one Kind of Church Livings, and the common Price of Labour; the two former from various Authors of Credit, the latter from our Statute Books, and certain casual Occurrences.

And here it may be proper to observe, that an Ounce of Silver is, and ever was, equal to an Ounce of Silver; and therefore, whatever more an Ounce of Silver would purchase, or pay for formerly, or now, is the true Difference. To go back then to the Head of the preceding Money-table, it appears, and we are both agreed in it, that 28 Edw. I. Silver was at 1 s. $8 \frac{1}{4} d$. an Ounce; Silver now at 5 s. 2 d. therefore if 1 s. $8 \frac{1}{4} d$. purchased a Sheep then, or paid the Labourer a Week's Wages, and 5 s. 2 d. does the same now, they being only of two different Denominations, and equally an Ounce of Silver, then were the Prices equal.

The Price of Provisions, as the learned Author admits, is a very uncertain Rule to judge by, as they not only alter on various Occasions at the same Market; but very materially at all Times in different Markets, as to Flesh, Poultry, and Fish; but as to Corn, the
Price is nearly similar in all Markets.

4

To make this Part of the Argument as brief as possible, I have here noted tablewise, the Price of such Things as are the most absolutely necessary for the Support of human Life, from the Author's own stating, and of what was actually purchased for the Prior of St. Augustin's, Canterbury 1309, and against them have set the Prices as they are now equal to, nearly as 1 s. 8 ½ d. is to 5 s. 2 d. or Two-thirds Difference; by which what Variance there is will appear evident.

An Oz. of Silver at 1 s. 8 1 d. = An Oz. of Silver at 5 s. 2 d.

l. s. d.	1.	d,	s.	1.		
1 1 6	= I	2	7	0	Wheat per Quarter	•
0 18 0	= 0	0	6	0	Malt ditto — —	neo mili
0 12 0	= 0	0	4	0	Oats ditto — —	
2 14 0	= 2	0	18	0	An Ox Carcass —	
0 9 63	= 0	21/4	3	0	Hog ditto — —	7200
0 9 0	= 0	0	3	0		1309
0 0 101	= 0	31	0	0		relig 10
0 0 9	= 0	3	0	0		गर्भारमध्य
0 0 41	= 0	11	0	0	A Pullet — —	101 101 1
0 0 3	= 0	1	0	0	Eggs nine — —	at a g
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0		0	Hog ditto — — Muttons ditto — A Goofe — — A Capon — — A Pullet — —	1309

How near these Prices approach to our distant Markets, is more readily observable, than that when some Circumstances are considered, they may be in Proportion much above them, as a Quarter of Wheat at 1 l. 1 s. 6 d. without a Land-tax, and Malt at 18 s. with both a Land and Malt-tax on it, and Oats at 12 s. with a Land-tax, and all three under the Load of various other Taxes, not known in those Days, will altogether sufficiently evince, that a Super-plenty of Money has not been the sole Cause of the Difference; nor is it very significant without, as a Quarter of Malt at 18 s. is not an uncommon Price now; neither is Oats at 12 s. an Ox at 2 l. 14 s.

may be thought cheap, by those who imagine it is intended such Oxen as are brought to Smithsteld-Market; and the same may be said of Hogs and Sheep; nor is a Goose at $10\frac{1}{2}d$. such an extraordinary Purchase at a Barn-door, no more than is a Pullet for $4\frac{1}{2}d$ or nine Eggs for Three-pence.

But this is not much to the Purpose of the main Argument, as these are all partial or chance Prices: Nor was the Produce of the Land in those Days so well proportioned, as to bear even or regular Prices, especially between Corn and Cattle, as it is found on due Examination, that Wheat was often at an Ounce of Gold the Quarter, and other Grain in Proportion; and, upon an Average through the whole five hundred Years dearer than now.

On the studying of this with more than common Attention, I find the Value of a Day's Labour to be 3 d. nearly the seventh Part of an Ounce of Silver then, and so equal to 9 d. now; that the Statutes directed less, I am sensible: But they never did, nor never will, or can operate to any Purpose in such Cases; not only for Reasons that common Sense will tell any Man, but what is likewise evinced by common Experience; the Reason is, because such Laws are not equal, sounded on a false Supposition, that every Man is equally strong, willing and skilful, and therefore the Statutes only serve as Hints to inform us something near the Matter.

It is besides with Labourers as with Commodities; the Price is governed by Plenty or Scarcity; and herein consists the Marrow of that Maxim, that Numbers of People are the Wealth of a Nation; as where they are plenty, they must work cheap, and so Manusactures are encouraged for a foreign Market, and their Returns is the Wealth of a Nation, which Numbers thus procure.

Take this as a brief Illustration; if Plenty of Money made Labour dear, how happens it, that in New-England, where Money is scarce, Labour is dear: And again, in Jamaica, where Money is plenty, Labour is dear; the same in Spain, &c.

A Maxim must hold true in every Part, or it's no Maxim; and this of the Plenty of Money making Labour dear, is hardly true in any Part; for in the different Situation of New-England, Jamaica, and Spain, we see the same Effect; but neither relative to the Plenty of Money, but all to the Scarcity of Labourers. However, if we look a little further back, Plenty of Money may in Time cause a Scarcity of Labourers, and so Dearness of Labour; but this is merely casual.

But then again, it should in another Light be the Cause of Cheapness in Necessaries, as it may be the Means of Improvement of Lands, &c. and so by rising the Quantity, lessen the Value.

And we see daily, that the Price of Grain is not ruled by the Plenty or Scarcity of Gold or Silver, but by its own Super-abundance or Desect, where we raise more than we can vent, or where we could vent more than we raise; so in Labourers, where they are scarce, they command their Wages; where Plenty, the Wages command them; that is to say, they will work for less Gold and Silver in one Case than in the other. Hence it is evident, that Gold and Silver is as much balanced by the Plenty or Scarcity of other Things, as them by Gold and Silver; and upon that Balance depends the Difference of Prices.

I am apprehensive, that the learned Author above quoted, plainly perceived this; for he says, Chap. VI. "That v l. in Hen. VIth's "Time, contained 40 Ounces of Silver, now only 19 \frac{1}{3}; and there-" fore that v l. was of somewhat better Value than x l. now-a-days "is:" But then says again, for Reasons he was best acquainted with, "That if for twenty Years together the Price of Wheat "were vis. viii d. the Quarter; and from 1686 to 1706 at 40 s. the Quarter,

"Quarter, it is plain v l. in Hen. VIth's Time would have purchased fifteen Quarters of Wheat, for which the last twenty
Years must have been paid xxx l. therefore that xxx l. now
would be no more than an Equivalent to v l. in the Reign of
Hen. VI." But suppose v l. now is 20 Ounces of Silver, 30
Times 20 is but 600, and 5 Times 40 is 200, or \(\frac{1}{3}\) the Quantity,
and proves beyond Dispute, that the Equivalent is only as 5 is to 15,
not as v is to xxx.

This is a Point which I look upon as of the last Importance to my Country, to investigate clearly, what is the true Cause of the Dearness of Labour, &c. it cannot be owing alone to Plenty of Money, for the Reasons before urged; and because that where a Country is full stocked with Inhabitants, whether Money be plenty or not, the Price of Labour will always be in the Power of the Employer; and where that is the Case, Manufactures will be carried on cheap, as in Flanders; and the fure Way to carry on a flourishing Trade, is certainly to manufacture cheap; and as this is only to be attained by an Abundance of Labourers, and we do not perceive the Want of them, through their earning too much Money, and so fetting up for themselves, nor from Want of a healthy Climate, nor from Numbers going abroad: Nor will our heavy Weight of Taxes fall always fo much on Provisions and Necessaries as to make Labour dear, though it may make a material Difference between the present and former Times. For, as has been observed before, if the Markets are full stocked, the Buyer will govern the Price; and if that Price will not pay Rent, the Landlord may be obliged to live upon less, but the Consumer will not be burthened with the Taxes, it must all fall on those who have Property.

So that, as to the Labourer, this is but Part of the Evil, or Necessity of raising the Price of Labour: The worst Part of it then is, that high Taxes drain the Centre of a Country into the Capital, whence perhaps it may not circulate back quick enough to answer

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necessary Emergencies; which causing a Stagnation of Business, sends the Labourers after the Money: And a Country thus thinned, tho Money be scarce, Labour will be dear, on our former Principles. This is in some Measure remedied by our Number of inland Manufacture Towns, which, by Drawbacks on the Capital, and prudentially keeping their Labourers together, and in Trades they cannot well follow any where else, is a fair Means of having their Business done cheap, and they thrive accordingly; but out of the Vicinage of these, the Case is very different, Labourers will be scarce, and Labour dear.

Hence I shall beg Leave to make an Inference to the main Purport of the Work before me; which is, that so much as we want in the Cheapness of Labour, so much shall we be desective in the Balance of Trade abroad; and although it may be, that Exchanges may vary or rise in our Dissavour, whether the Balance be greatly for, or against us in Trade; yet should we be much better reconciled to that little Deviation from the Par pro pari, if Means could be found to render Labour generally cheaper, and by acquiring a large Balance, make little Differences in the Exchange appear infignisicant.

And as I hope it is now pretty well proved, that Plenty of Money is not the dreadful Spectre that frightens us out of our Trade, by making Labour dear, but the Want of People enough to make it cheap, it will be worthy the Attention of the Great and the Wife, what is the most apt and proper Way of stocking the Nation with sober industrious People, applicable to such Employments as are now evidently most in Want of Labourers, and in which, though I shall not presume to prescribe, I shall beg Leave to deliver a few Hints.

In all Businesses, where the Labourer in three Days can earn Money enough to maintain himself the other three in Idleness, that Business wants more Hands; and wherever any Part of a Coun-

Country is so scarce of Labourers, as that for Aid in the principal Part of their Business, they are obliged to procure others from a Distance, they likewise want Hands; and in either Case Labour will be dear.

Those who are entertained and educated at the public Expence, the Public have a fair Right to the Disposition of; and it is certainly for the public Good, that they are apprenticed to such Employments as are most in Want of Labourers.

The Children of very poor or dishonest People, should be taken care of by the public in Time, lest instead of serving, they come to hurt the Public, either through Distress or bad Education, if it can be done without any Violence to the natural Right of the Parent, as it is better to make Men good, than to hang those which are bad.

· Marriages should be encouraged in such a Manner, as that a Labourer may not be the worse for having many Children.

A little Property in waste Lands will encourage Procreation; and as such Place becomes over-stocked, the Surplus will serve in other Places. Historians say, that out of a few Families rose the Saracen EMPIRE. It is more than possible, that a hundred Familes well placed, and on suitable Terms, might re-stock the whole Nation with Husbandmen.

After all, so long as the natural Rights of Mankind are duly confidered in a free State, so long will they be at their own Disposition, or of their Parents or Guardians; and so long will some Employments, not much to the Interest of the Community, be overstocked, and others of more Importance to its Welfare be wanting of Assistance: In which Particulars the Remedy resting rather in the Skill than Power of Government, or in the good Management of those parti-

cularly

cularly concerned, we must wave farther intermeddling herein, and conclude this Branch of the Introduction, by only observing, that if Money be ever so plenty, or scarce, the Price of Labour will always be ruled by the Quantity of Labourers, the Price of Goods by the Quantity at Market, and the Balance of Trade by the Quantity and Cheapness of Commodities.

As to what is faid in the Chronicon PRETIOSUM, about the Stipends of Priests, serving Cures, and Vicarages, or Masses, it only shews, that those who had the great Incomes, parted with as little as possible to inferior Priests, and makes nothing to the main Argument, as they could not live upon it, and went out robbing and thieving, while the Superior amassed immense Wealth; as it appears that in Abbacies and Bishopricks, they could afford to expend Sums that would feem now immense to an Archbishop of Canterbury; could build as expensive a Church as St. Paul's, and settle great Estates on Colleges and Schools on one Man's fingle Bottom: In a Word, could do what Kings could not do. And yet we find that in 1316, EDW. II. gives to Theophania, because she had been Nurse to his Queen Isabella, a yearly Estate of 500 l. for ever, a Gift not equalled in this Age, where the Reason is similar. Besides that, 500 l. then contained as much Silver as 1500 l. now, as I hope is obviously proved before. And as to the Priests, it is the same as with the Labourers, they might be fomething cheaper than at prefent, because more plentiful.

That we have more Manufactures, and more Trade, is not doubted; but in order to circulate that, we are necessarily obliged to expend in Part on the one hand, what we gain on the other, and what the Difference of that is, there is the Sum total of our Substance.

Our Gain formerly was produced by the Sale of such of our staple Commodities, as other Nations must take at our Price, particularly Tin, Tin, Corn, and Wool; and as those who purchased them made their Markets other where, the Returns to us was principally in Coin or Bullion; and as we did not for some Time deal much farther, so foreign Wares purchased by us was inconsiderable: and therefore the Majority of our Returns a real Balance. But whether that Balance equalled the present, is difficult to be adjusted.

To judge of this by the Operation and Effects, is only to confider in what Course the Cash ran in former Times and now. Formerly it was in the Hands of the Priests and of the Nobility; now chiefly in the Hands of the Trader, and in the public Treasury.

The Application of it formerly was in building and endowing Churches, Monasteries, &c. and in erecting of noble Seats; what was then chiefly circulated in Buildings, and amongst Artificers and Labourers in that Way, now circulates maritime-wise and in Manusactures.

The Nobility could then do great Things, live higher, and keep public Hospitality, without injuring their Estates, because they were much larger than any are at present; and for the same Reason could the Priests do the like; nor is any Man now able to build as was done formerly, it being found difficult for the whole Nation to spare any Thing significant for great Purposes. And even to come between the Nobibity and Clergy, we find more good Gentlemens Seats built than at present, without Injury to their Fortunes, while most of our modern Builders sink their Estates in their Houses, and generally perform but meanly neither.

On the other Side, there is more Cash in Bank and in Bankers Hands, than probably there might be Cash formerly in London; but there is likewise some Part of it owing abroad, and not English Property, independent of what we pay Interest for; and such Money and such Interest must be thrown into the Scale to balance fairly

the Difference of our Stock of Cash, formerly and at prient; as must also the Difference between paying of Subsidies abroad, and receiving an Income from conquered Countries; and thus allowing a greater Flow of Money, there may not be a larger subsisting Sum.

This brings me to the Conclusion of my Argument, which was to shew, that the Increase of Money is not the only Cause of the Difference of the Price or Value of Provisions, Necessaries, and Labour, which confirms what is set forth in the following Treatise, That Money in general makes out but a small Part of that wherein consists the Wealth of any Nation, which comprehends Thousands of Things for the Use of the Community; and whereof, desective as we are in England, Foreigners, as well as Englishmen, must allow, that as our Laws, Constitution and Government excel all others, we therefore find in Proportion here more Property and Plenty than any where else.

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UNIVERSAL MERCHANT.

SECTION I.

HE Wealth of a Nation, though generally envied and dreaded by neighbouring States, should rather be Cause of universal Satisfaction, when it is considered, that as a Superfluity naturally spreads the soonest to the nearest of them; so by the one, the Strength or Power which Wealth gives, slows in Proportion to the other.

SECT. II.

It is obvious, that if our Neighbours are possessed of a greater Stock of Commodities, for either Advantage or Pleasure than are requisite for themselves, and we either want or desire them, they are to be obtained at less Charge than if we traded for them to more distant Countries.

And if they have too many, and we too few People, while we are in Friendship, they will dispose themselves amongst us, and thereby contribute to improve our Wealth and Power.

⁽¹⁾ By Wealth here is not specifically understood Cash or Bullion, Gold or Silver, which are only the common Medium of Trade, but a Pre-eminence of Industry, Manufactures, and Commerce, which are truly the Wealth of a State.

SECT. III.

If both our own Country, and neighbour Nations, are thin of Inhabitants, we should use all possible Means to supply ourselves from more distant Parts.

SECT. IV.

People readily go to Countries where they are fure to enjoy Liberty, and reap the Benefit of their Labours, where Justice reigns, and where the Situation of Towns, the Fertility of Lands, and the general happy State of Things are calculated to produce superior Advantages to what they could possibly enjoy in the Places of their Nativity.

SBCT. V.

(2) Ministers at the Helm of Affairs, who observe it to be Want of good Policy, and the not giving due Encouragement, that the Country is thin of Inhabitants, and Lands lie uncultivated, will ever use their best Endeavours to engage Foreigners, by granting them ample Privileges, and even free Cities for Trade.

SECT. VI.

When once People have made themselves in their Districts so numerous and powerful, that they are able to defend the Privileges granted them, they will not easily suffer themselves to be deprived again.

It is, perhaps, from such Motives, that the free Cities in Germany became independent; but, if it is rightly considered, that altho'

⁽²⁾ It is however certain, that no Country, naturally fertile, and lying convenient for Trade, ever wants Inhabitants, unless the Generality are in such a Situation, as that they do not chuse to marry and procreate, or that they are injudiciously permitted to transplant themselves into foreign Colonies, or both.

they are independent, they are of more Utility to the State than if they had never been free; because, as they increase in People and Wealth, the Princes Lands that surround them, increase also, and are therefore evidently the Cause of the improved Value of such Princes Lands, that were before of little Significance.

SECT. VII.

Suppose on the one Side of the River Elbe is a great, rich, free City, surrounded by the Lands of a powerful Prince, who can, at Pleasure, conquer the same, he might, for the present, reap some Benefit therefrom; but the Inhabitants of the circumjacent Country would soon feel the evil Effects, and consequently quit it. And then suppose a Prince on the other Side of the Elbe, made such Offers as would draw them over to settle there, would not he who drove them away, have more to fear from the additional Wealth of his Neighbour-prince, than from the free independent City?

SECT. VIII.

While a Prince, from the Independence of fuch a free City, has nothing to fear, he should not impede the Way, by which Wealth and People are led into it, but rather consider it as a Place privileged by himself, and his own.

SECT. IX.

By granting to a neighbouring Place yet greater Privileges, and by Exemption from Taxes, you may foon cause People to remove from one Place to another; but while they are not from foreign, or distant Countries, the Number to live on the native Produce in both Places, is equally the same, so will not increase its Value. On the contrary, by dividing the City's Interest from your own, and setting People to work against them, it may be a Reason for the most wealthy to withdraw, and the Course of Trade along with them.

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SECT. X.

But great trading Cities neither ought to make themselves uneasy, by any small Settings-up, or Workings against them in their Neighbourhood, it may be rather a Benefit to them; because, as foreign Artificers may not be permitted to work in the City, they may be of equal Service by working without the City.

SECT. XI.

So it is for London, where, within the Precincts of the City, Freemen only are permitted to do certain Sorts of Work; but all round, as in Westminster, Burrough of Southwark, Tower-Hamlets, &c. all People are at Liberty to do what kind of Work they please.

SECT. XII.

If in a City, for Example, the Brewing Business was granted, or confined to one Body of Men, who either did not understand, or would not brew good Beer, and yet the Inhabitants chose to drink of the best, would it not be better to encourage the Setting-up of Brew-houses in the Neighbourhood, than to fetch it from a Distance?

SECT. XIII.

There is a great Difference in Respect to what may be for the public Benefit of a single City that has not any Land-produce of its own, and of a Kingdom which comprehends a great Number of Cities and Lands together, and to consider what will turn out the best upon the Whole.

By the first, all Trade and Affluence of Goods whether produced in the Neighbourhood, or brought from distant Parts, ought to be equally welcome: The City must endeavour, not merely to have the forwarding of the same, but to form a Staple out of as

many of them as they can for buying and selling, and converting as many raw Materials as possible into Manusactures, so that the Value may increase within their Walls. But where various Commodities are produced from our own Lands, your Endeavour ought to be to make the most of it, but in such Manner as that the Work of the (3) City may not hinder the Labour on the Lands; and that what you have not on your Lands by Nature, may be acquired by Art, and raised from foreign Seeds, Plants, &c. as, by this Means, the Inhabitants may be more employed in their own, than in soriegn Products; nevertheless, that Labour which is bestowed upon Things the most valued, and made Use of for Maintenance, Delight and Desence, is the most beneficial for both, which is subject to Variation, and so Industry and Invention ought every where to be encouraged.

SECT. XIV.

Wealth and Plenty in Kingdoms and independant Cities, refult from the habituating of the People to Sobriety and Diligence in Business, the prudent and moderate Use of their Profits, and their being instructed and practised in all Kinds of inventive Works. Hence the greater Number there may be, who are able, diligent, and virtuous enough to lay up Part of their Labours in Store, or Money in Lieu of it, the more is such Kingdom or free City in Condition to maintain itself, or to serve or prejudice their Neighbours.

SECT. XV.

Being in fuch good Condition, there is not any Necessity to envy their Neighbour's Prosperity, nor to be jealous of their Improve-

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⁽³⁾ The Author has hitherto treated the Subject locally, and principally with an Eye to the City of *Hamburgh*, and its Neighbour *Prince* the King of *Denmark*; but the Remark here respects the *Metropolis* of every Kingdom, more particularly *London*; where more Manusactures are carried on, at least to a greater Amount, than in any other, and is thought to draw off too many Hands from *Labour* on the *Lands*.

ments, as they can never fail to find out new Works for the Purpose of Barter.

The more Men invent, the more they use, and the more Opportunity is given to the Increase of Industry; and the more People come from foreign Parts to be employed, the more of the Goods they work up will be to spare for Exportation.

Nor can it injure a virtuous, industrious People, that their Neighbours are equally so, as it will be best for both to have Plenty, as from thence Commerce reciprocally slows, and knits the Bands of Amity.

SECT. XVI.

War devours, and Peace restores; the Sovereign or State that proposes to enrich their Country, must avoid War with their Neighbours, encourage Virtue and Industry, and preserve Peace and good Order at Home; and whoever pursues this Rule, will never want Prosperity.

SECT. XVII.

It is a natural Consequence, that every Country, by enjoying Peace, under a wise and orderly Government, will increase in Manusactures; and if there are ever so many, there cannot be any Fear of finding a Consumption for them, because as every Novelty finds a Purchaser, so will every Product of Art find a Vent; as the more we have, the more prodigally are they used.

SECT. XVIII.

All Things are to be had for Money, and Money is made from Bullion. Thus a Country, which possesses Store thereof, can thereby acquire all other Necessaries; yet, the more Money abounds, the less you can buy for it. However, to call a Country rich, it must

must enjoy many other Requisites, it being very evident, that Wealth consists essentially in a numerous and industrious People.

SECT. XIX.

By continuing to raise gold and filver Ore, and the Mines not wearing out, the Quantity increases, but the Value decreases, as set against other Commodities, we use not of so durable a Quality.

SECT. XX.

However, Money is the principal Agent in Trade, as it circulates with more Facility, and more readily adjusts the Balance than any other Commodity can; but it is not so abundant in the Places where it is raised, as where there are a Number of People working on barterable Commodities, who dispose of them directly or indirectly to those who possess the Mines; and were the Powers possessed of such Mines to manufacture all Necessaries at Home, they could not then have any Use for their Bullion, nor employ it to any Purpose.

SECT. XXI.

The Reason that Money is sought after, is owing to the Value, which its Use in exchange for Necessaries stamps upon it.

There is no Wisdom in hindering the Exportation of Money, no more than of any other manufactured Commodity; but it may be prudent, on certain Occasions, not to suffer its being expended in such Things as are detrimental to the State, and to the Good of Society, as rambling into Countries where our Morals are corrupted, and whereby we may be made an effeminate, idle, vicious People.

SECT. XXII.

While the Pursuit after Money creates between Neighbours an Emulation in Excellence of working, and an Increase of Ability, Skill, and Virtue, it is a reciprocal Good, tends to the common Benefit of either State, and the universal Advantage of human Society.

SECT. XXIII.

The Value of Money depends effentially on the judicious Application of it, and is either a very valuable, or pernicious Commodity; as used or abused, as it can supply us with People, force Industry, and circulate Trade, it can likewise procure Honour to a State, which is like Credit in Commerce; but its Use is very badly considered, when, by being locked up in our Chests, it is thrown into a Kind of State of Non-entity.

SECT. XXIV.

All Commodities necessary to our Use and Recreation, are Money-worth; and whatever we possess more than we want, is so much better than Money by us, as they will produce in the Course of Trade, and in valuable Returns; and therefore it is, that wise Merchants have always a better Store of Goods than of ready Money; for which Reason the Power or Wealth of a Country must not be measured by the Cash we see circulating, but by the Abundance of the People, their Industry, and Stock in Trade of all requisite Commodities, especially in time of War, when by a Decrease of the People, and of Labour, such Commodities become more valuable, and are therefore to be preferred to Money.

SECT. XXV.

In great trading Cities, the Wealth is found not so much to consist in Cash as in merchantable Goods; and the oftner Goods change Hands, the less Occasion there is for Money. In some Merchants Warehouses may be found 100,000 l. in Effects, but not 1000 l. Cash in the Compting-house.

There is most Wealth in a City where you see Streets full of Shops, and Warehouses stored with Goods, and where they are known to be the Property of the Possessor; or if they have them in Commission, they have advanced Cash in part for them. And the surest Signs of the Wealth of a Nation, is the Number, Magnitude, and Appearance of their Manusacture-Towns, and the Quantity of Shipping evidently employed.

People who do not adventure beyond their Strength, and constantly circulate their Money in Trade domestic, or foreign, are always to be preferred by a wise Government, to those who either let their Money lie idle, or depend merely on its Interest out of Trade for their Support.

SECT. XXVI.

Men do not generally chuse to let their Money lie idle, where Justice is observed, and they can be secure of receiving it back with Interest, in the same Kind, and of like Value, as what they lent; and since by Money lent out, Labour is improved and Industry encouraged, therefore the Standard of Coins should never be altered to the Prejudice of the Lender.

S E C T. XXVII.

The Lender ought to receive back in Weight and Fineness, the same Quantity of Gold or Silver, as his contained at the Time he lent it.

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The falling or raising the Coin.

Nations, if they are indebted to foreign Countries, and raise their Coin, certainly gain so much as they pay less than they borrowed, by the Difference of such Augmentation: But, as thereby they lose Credit, the Consequence is commonly against themselves as they must pay more on all suture Emergencies, for that Hazard which is run by giving them Credit; and this is what makes the present Difference between GREAT-BRITAIN and FRANCE.

SECT. XXVIII.

A State ought to be careful to always maintain within itself, one certain invariable Coin of its own, whereby the Value of all Goods may be regulated, so as to know what Quantities of Gold and Silver in Weight and Finencs they receive for the same; but it should never hinder the Course of a Neighbour Country's Coin amongst us, for so much as they are the worse, or for such separate Purposes, as it can be made Use of in trading with them to Advantage.

SECT. XXIX.

But there is a Doubt how, when a neighbouring Power makes, from Time to Time, Alteration in Coin, it is possible to hinder its passing for more than its proportionate Value to ours, or how to prevent the Damage falling on ourselves. To come to a clearer Insight of this Matter, let us suppose that we live in a free City, stored with some Coin of our own, according to an Establishment amongst ourselves, and from the neighbouring Powers who surround us, we find ourselves daily burthened with Coin of a worser Alloy, it seems, in such Case, only necessary to publish the intrinsic Value, and at what Rate they will be taken by the Government. In all other Cases, Individuals are to consult their own Interest; Merchants, on such Occasions, know very well how to proportion the Price of their Goods to the Value of the Coin, or to give it again in Return for Purchases.

In a City so circumstanced, and containing 200,000 Inhabitants, you have daily Opportunity of paying back for each Person for Corn, Butter, &c. two Shillings on an Average (4).

XXX.

When, by the ordinary Course of Trade which we have to Balance, or distant Countries, it happens that they become more and more in Increase, our Debt, such Increase partly proves the Balance of Trade in our Favour, or, at least, that our People increase more in Wealth than theirs.

(4) In a City so circumstanced, containing 200,000 People, who may each spend a Day two Hamburgh Stivers for Corn, Butter, &c. it amounts to 9,125,000 Marks, nearly 608,333 \frac{1}{3} Pounds Sterling, or so much less as that Number is defective; and it is presumed, that the Country People do not take half the Value in Goods. Thus 6000 Marks, Danish Currency, at 120 per Cent. before the new Coinage, were worth in Hamburgh, Bank Money 5000 Marks: Then the King of Denmark takes out of Hamburgh 5000 Marks, Bank Money, and therewith, at 40 per Cent. coins 7000 Marks, which the King pays to his Soldiers, &c. and they to the Farmers, &c. consequently the first Loss falls upon his own People.

But it is farther to be observed, that as soon as the Hamburgher was apprised of the Difference of 20 per Cent. in Value, he calculated the Equivalent, and found, that for a Debt of 5000 Marks Bank Money, he was to receive 7000 Marks Danish Currency: On the other Side, if the Price of Provision did not rise with the Coin, he paid in Equivalent no more than 6000 Marks, and so gains 1000 new Currency, or so much as the Provisions did not rise to in Proportion. Hence it is evident, that if at Hamburgh, 8000 House-keepings cost each yearly 500 Marks, Danish Currency, the Amount would be 4,000,000; and if the Danish Produce ought, in Proportion to their Coin, to have risen 20 per Cent. and did not rise above 10 per Cent. then it appears that such Produce was purchased at 400,000 Marks less than before. And as it seems not probable, that what the Danes purchase annually in Hamburgh, could amount to 4,000,000 Marks, and the Half thereof on Credit, it is only in that and the Amount of the Credit, and calculated to receive in better Coin that the Hamburghers could once lose.

SECT. XXXI.

I speak of Debts arising from the Nature of Trade between Merchants, but not of Debts of State. In England, the Debts of State are now more than they have ever been, nearly to the Sum of Eighty Millions; notwithstanding I am of Opinion, that England, comparing its national Wealth with other Countries, it has rather increased than diminished. And although it cannot be denied, that forasmuch as Foreigners are become great Creditors of these Debts of State, more Interest must be made good to them, yet if it appears that the private People abroad, are more indebted to the private People here, than such Interest amounts to, the Nation has no prejudicial Draught upon it on Account of such Debt, and that the general Balance of Trade is highly in Favour of England.

We shall find, on considering it maturely, that, during the War, a great Balance must have accrued by our naval Superiority, and Prizes taken by the Increase of the Consumption of English Manufactures in Germany, and by the advanced Price of East and West India Commodities, and by the great Stock of Goods remaining on Hand at the Conclusion of the Peace, since generally exported.

And, as the Money borrowed is, on Condition, to be re-paid again at Pleasure, or when it can be had cheaper, so it is always in the Breast of the Government to lessen the Burthen; and as hardly One-fourth Part can be deemed soreign Credit, the other Three-fourths makes no Alteration in the national Balance; and it is pre-sumed, that more of the Foreigners Interest is taken in Goods than Money, and that owing to their being Creditors.

It follows, that the more Money a Nation acquires, the less Benefit is reaped from it in Proportion as Interest falls of Course; consequently, if we compute, that from the national Debt, presumed 80,000,000, issues an Interest of 2,400,000 Pounds, and by the lessening of that gradually, from 4 to 3 per Cent. in the Interest, the same Taxes continuing, and the Sinking Fund thereby enabled

to pay off from the original Debt annually above 1,000,000, there feems not any Necessity to think of a further Reduction, to diminish the Balance of Foreigners against us, as they computing the Interest received, and what is repaid by the Reduction of the Capital, will be readily induced to give an advanced Price for Stock, and so much as that Premium amounts to, is so much clear Gain, as it lowers and retains of the Interest thereby.

Some modern Politicians have run upon another Notion, and several Persons have thought that the more Funds are erected, the more People are engaged to preserve the present Government. Dr. Davenant is of Opinion, that this Policy only holds true, if the Lenders are stronger and more in Number than those concerned in Payments to the Public; however that may be, it is certain, that either the Interest alotted to Foreigners, is not carried out of the Nation, or that the Profit in Trade is immense, to bear without sensibly feeling it a dead Draught of at least 600,000 Pounds a Year.

But it is more than probable, that Foreigners are not concerned in any Thing like One-fourth of the national Debt; the Dutch, who are the principal Creditors, however engaged before, not advancing an equal Proportion of the last accumulated Debt of 30,000,000. I have been informed, that most of the Money which the Dutch have here, is in Bank, East-India, and South-Sea Stocks, and that their Interest in them might amount to One-third of the Whole.

Now as Bank Stock amounts to — 11 Millions,

East-India — 3 3

South-Sea — —

One-third thereof does not exceed Millions, and if they have as much more in all the Annuities together, the Amount would only be and as the Dutch were late in, and E made

made no considerable maritime Profit of the last War, it can hardly be presumed that they came into a proportionate Share of the last 30,000,000 Pounds, though we are sensible, that there were very considerable Sums negotiated there; but as the chief Advantage of the War was made amongst ourselves, it is most likely, that the greatest Part of the Loans were our own. However, as it is not difficult to get at a certain Knowledge of this, so it is a Point easily put out of Dispute; and then it only remains to calculate the Disference of Interest, paid them upon the Whole before, and since, and thereby come nearly at the Truth of their present Draught upon us. For, although some foreign Capitals may stand in English Names, it cannot amount to much, and may perhaps be balanced by Foreigners resident here, and Portugal Jews who intend to come hither, which is the same as Natives.

It is evident, that the national Debt does not weaken or impede the Current of Trade, which must necessarily happen on the Exportation of so much Bullion; and for any thing that appears to the contrary, the English are one of the richest trading Nations in Europe, and conduct their Affairs with a better Appearance than any other: They have ready Money to pay for all they purchase Abroad, and are always prepared to advance Money on Goods sent them by Commission; sew want any Advance on Goods they send Abroad, nor are under the Necessity of Sale for ready Money; and seem to be in as happy a Situation as at the Treaty of University or Sale for ready Money;

Vol. I. P. 36, Utrecht; when as the British Merchant observes, "There are always Goods at Home in their Ware-houses to a considerable

" Value, and in many Parts Abroad on English Account: Other

" Countries may have more Factorage, and get more by Com-

" mission, but there is no Nation that has so many true downright

" Merchants, who drive all their Trade on their own Capital, as

" the English".

Now, as the English Merchants in foreign Countries, have more to receive than to pay, or that as, per Balance, is due to them pay-

able at Time, not only Part of the present, but of even the future Produce, comes to be English Property.

SECT. XXXII.

France, however it may be under the Burthen of greater Debts of State than England, is yet a more powerful Nation; and altho' it may have lost in its Wars more People, and visibly suffered more Loss in its Shipping and Trade, yet will its natural Superiority in Number of Inhabitants soon retrieve its Affairs; and though many of its Merchants have been ruined, many still subsist, that carry on much the best Part of the Gold and Silver Trade in the West-Indies and with Spain; and, as the French send more Goods in Time of Peace, than other Nations, they must grow richer.

SECT. XXXIII.

Before the War, few would believe that the French carried on fuch an extensive Trade, as has since appeared by the Captures made of their Cargoes; and now many are apprehensive that they are likely to become Masters of all the Trade.

France contains a great Number of industrious People, so made by the Arts of Government; and, if they amass Wealth, and treasure it up apace, that is not to be avoided; but if the French do not increase in Number faster than the English, there does not seem to be any Danger of their being proportionably more powerful than heretofore.

And, as England is so happily situate, and divided from the Continent, and has Wealth and Number of Inhabitants sufficient for every Purpose, Men so favourably circumstanced, are of more Importance, than where many are required to guard fortissed Towns, or otherwise engaged in the Army or the Church, and therefore sewer can be spared for Cultivation and Manusactures. In which Light, it is more than probable, that England has, in Proportion, more useful People.

SECT.

SECT. XXXIV.

Let the English, French, Spaniards, Portuguese and Dutch, extend their Trade as much as they can to America and the East-Indies, whatever People they so employ, cannot injure their Neighbours here; their Trade must employ a great Number of Men and Shipping, and must vend their Commodities; but, whatever Way they circulate their Commerce, they are under a political Necessity of being in Friendship with whom they trade; nor does there seem to be the same Danger from a trading Power, as from the same Neighbour formerly, when the World were less addicted to Commerce.

SECT. XXXV.

Colonies in the East or West-Indies, so far as they take off the Useful and Laborious, weaken and divide the Mother-country; however some make even this a Question, as the sparing of certain Numbers who cannot find Means of doing much, is the Cause of others living better when they are gone, and of marrying and propagating their Species more freely, as is rarely the Case of Men in distressed Circumstances. But, not to extend this Argument farther, it is certainly true, that where-ever large Colonies are to be planted, it is more politic to encourage Foreigners, than to transplant too many of the Natives; but it may be justly observed, that both England and France have many People that do more Harm than Good at Home, and may either of them spare some Thousands annually, and strengthen themselves by it at Home and Abroad; but it must be admitted, that industrious Foreigners are a happy Acquisition.

Spain admits none, or rarely any Foreigners in America; and the Country being rich and charming to it, Multitudes of the Natives and the Spaniards, at the best, not being a very prolific People, they have much weakened and exposed their Country; by which

Means they who were formerly dreaded for their Power, are now simply respected for their Wealth, and in no other Manner have any Influence on the Affairs of Europe.

SECT. XXXVI.

them upon much the same Footing with the Natives, can never fail abounding in People; nor while they pursue their present Maxims of Frugality and Industry, can they fail of being rich, though hardly possessed of any one staple Manusacture. They are a People whom wise Men emulate, and Fools envy. Their East-India Trade, Fisheries, and Employment of Shipping, with other incident Engagements, find Work sufficient for their People, give them a Figure capable of commanding Respect, and of being attended to and courted by their Neighbours. If they are capable of supporting a formidable Force for their own Protection, such Force is not to be dreaded; the same may be said of all Nations attentively turned to Trade; such, nothing but absolute Necessity can engage in a War.

Confidering the Power of France, the mutual Safety of England and Holland, makes a firm Union requisite between them, though it is principally necessary on the Part of Holland, as lying most exposed: But, as the Loss of Holland to France, would turn the Balance greatly against England, so is it equally the Concern of the English to protect the Dutch, who, as being a trading People, will never forward their own Reduction by a precipitate War.

SECT. XXXVII.

The Grandeur of any Nation confifts in its being always in a Condition to command Respect from foreign Powers, as that if any Violence be committed on its Subjects, or Depredations on its Trade, it may be able to give either proper Relief. But, in Order to make

the greatest Advantage of Trade, and procure Esteem from Foreigners, Force should only be used in the last Extremity; (5) and, in Cases of Necessity, to be always ready to assist those with whom we engage in an Intercourse of Commerce; otherwise to leave them to a free Judgment in the Conduct of their own Affairs.

SECT. XXXVIII.

As every great trading Nation should be provided with necessary Means for Defence, so likewise for Offence; and to evince the Weight of its Power, when any palpable Injustice is done its Subjects, or notorious Injuries to its Trade.

SECT. XXXIX.

To attempt Branches of Trade, wherein others are fixed, and have been long conversant, cannot be (6) esteemed Discretion in a mercantile People; but to know where, and how far our Wealth can properly operate and extend, is Wisdom.

⁽⁵⁾ Some are of Opinion, and Experience feems to have justified, that immediate Reprisal is ever the shortest, surest, and most political Method of coming at equal Justice; as it not only prevents a War, but, without any Expence to the State, regularly answers all the Purposes of general Violence. But, in Respect to our present Situation, or Connection with Spain or Portugal, our Factories there and Ships in Port, Reprisal would not be an equal Measure, though it might be otherwise in Respect to France.

⁽⁶⁾ The Ratio of this Aphorism seems to be, that if we engage in any Scheme of Commerce, wherein a Neighbour State is persectly conversant and established, it must either happen, that we are deseated or successful; if deseated, Enmity and Expence ensues; if successful, the Party injured, will naturally make a reciprocal Attempt on some Branch of Trade, wherein we have been long established; and the Consequence either Way is obvious: However, this is not a new Case between us and France; they have gained upon us considerably in the Woollen-manusacture, and we on them, in the Silk-manusacture, Linnen, Toys, and Cutlery-ware; and, upon the Whole, it is probable, the English are Gainers. But not so between the English, French, and Dutch, in the Guined Trade, where I think the English are the principal Losers; but that entirely owing to Measures not properly to be here explained.

SECT. XL.

In all Countries we meet with unaccountable Attempts for the Improvement of Commerce, usually springing from the prolific Brains of Projectors, who rarely see Things in more than a single Light, and utterly inattentive to universal Principles; of these has lately happened in England, a whimsical Attempt to carry on the Persia Trade through Russia; not considering, that if it took Effect it would be only putting that Branch of Trade into the Hands of the Russians at Pleasure, and quite out of the Power of England to protect the Undertakers on any Emergency, any more that it was in the Dutchy of Holstein, when that State made the very same Attempt to as wise a Purpose; besides the weakening and depressing of the Turky Trade, and throwing it wholly into the Hands of the French.

It is something like the Count of HANAU and Duke of MECK-LEMBURGH'S several Attempts to carry on Trade in the West-INDIES, and as some have since attempted in the East-INDIES on other People's Bottoms.

SECT. XLI.

The English have set up a HERRING-FISHERY; for which Kind of Fish there seems not to be a Vent Abroad, equal to the Undertaking, or to what used to be formerly, by Reason of the great Cod-Fishery now carried on in North-America, and which Commodity is more generally esteemed at the Southern European Markets; at the same Time there seems to want Encouragement for the bringing of Fresh Fish to London Market, which is, at present, a Monopoly, and the Fish scarce and dear: And, as the main Vent of the Herrings depends on the West-India Markets, which are at a Price too low to answer the main Purpose; this savourite Project may, at last, turn out very agreeably, and be the Means of bringing Fresh Fish up to London on better Terms.

S. E. C. T. XLII. Managing flow box

The English and French are Candidates in the Cod-Fishery for the Portugal, Spanish, and Italian Markets; and it is thought that the French gain upon the Trade for Want of Assiduity, or perhaps Frugality, in the English; and for this Fish there is a very good Vent: nor can it be presumed, that as France is largely extended on the Margin of the Ocean, that it will suffer the being elbowed out of this Trade by any Neighbour Nation, and is therefore only to be over-matched by Frugality, Industry, and superior Skill.

SECT. XLIII.

The Encouragement of Fisheries is undoubtedly right in Countries where Seamen should be raised to support a naval Power; but as all Kind of Fisheries contribute thereto, it is presumed, that equal Encouragement should be given to all, the Fishery for the London Market, as for the Herring Fishery, and for the Coast-Cod, for wet salting, and Newsoundland dry salted, as to either; that is, supposing it may be intended for the Herring Fishery longer than until it may be reasonably well established.

SECT. XLIV.

People not only vary in Taste, but in Fancy too, as they improve in Wealth. The Manner of curing the Atun, or Tunny Fish, which formerly produced a fine Income to the Ducal House of Medina Sidonia in Spain, is now no longer relished, and dried Fish most generally in Use, which may be meliorated and dressed in any Kind of agreeable Variety.

SECT. XLV.

In Countries where the People are most turned to Invention, and to the manufacturing Works of Fancy, as well as Necessity,

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and such principally out of their own Materials, they will customarily surpass their Neighbours in the Art of Trade, and create a Balance in their own Favour.

SECT. XLVI.

In a Country, where there are not Hands enough to work up the native Materials, nor can be procured, Exportation of the Superfluous, and what any fingular Manufacture does not materially depend upon, is an evident Benefit, and no Difadvantage to receive Necessaries in Return.

It is better, in a Land scarce of Grain, to lay the Hand to the Plow than to the Loom.

Any Constraint from acting in this or that industrious Pursuit, in the like Manner as is permitted in other Countries, incites Men to leave their own Homes, and to retire Abroad.

SECT. XLVII.

The Variety of Things permitted for our Use or Recreation, is a Reason, why that People to profess and enjoy them should be diligent, and save so much out of the Produce of their Labour, as will procure them such in common with others.

Every foreign, as well as domestic Manufacture, has in itself an intrinsic Value, however small it may be.

S E C T. XLVIII.

It is not from hence to be inferred, that it is equal to employ our Money in foreign as in domestic Manufactures; but that as it must happen if we sell, it cannot be expected that we should never buy, as it is buying, as well as selling, that makes up the Sum and Substance of Trade; and should we work only for Sale, our Hands must be employed in Manufactures of more Benefit to the Purchasers than themselves. It is therefore best, that those,

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who by Diligence and Industry accquire Wealth, be at Liberty to enjoy the Benefit thereof in their own Way of dealing, so that the same be not inconsistent with the common Good of Society.

SECT. XLIX.

It has a very happy Effect on Society, when Persons of high Rank make their chief Expence center in the Produce of early Fruits and costly Things of their own Country: It is only then, that the Doctrine of Mons. Melon, in his Essaie Politique sur le Commerce, holds good, where he says, "Pour quoi se recrier sur cette solle dépense? Cet argent gagné dans son costre seroit mort pour la societé: Le Jardinier le recoit, il l'a mérité par son travail excité de nouveau; ses ensans presque nuds en sont habillés, ils mangent du pain abondamment, se portent mieux & travaillent avec une esperance gaie: Il ne serviroit aux Mendians qu'a entretenir leur oissvete, & leur sale débauche."

SECT. L.

SECT. LI.

However, in all Countries, where there are a Number of People, wealthy by Inheritance or Acquisition, it is right that it be some Way circulated for the common Benefit, and Opportunity given, rather to its being spent at Home than Abroad.

It feems good Policy, in Time of War, to permit those who have acquired Riches, freely to expend the same, to prevent their quitting the public Service, and turning their Thoughts another Way, and it is best for the Community that this be done at Home.

LII.

When all Things are confidered together, the same Principles hold good in a Nation or other Community, as in a private Family; they must, in order to be wealthy, labour for more than they want, or in other Words, spend less than their Incomes.

When the two greatest Nations in Europe continued longer in a War than either of them could regularly afford, Time, the great Regulator of human Conduct, obliged them both to be content with Peace.

War has the same Effect on Nations, as Contentions on private Families; they at last, both set down Losers.

SECT. LIII.

Kingdoms and Cities, as well as private Men, may sometimes purchase Peace too dear, as all Objects are not of the same Value in all Places.

A Peace with Algiers is not alike valuable to Sweden or Denmark as to England, France, or Holland, the former not having any Thing like the Number of Ships in Trade, nor are so well situate for carrying it on as the latter, as having no Opportunity of employing them to Advantage, and therefore could not be of any Advantage to have them.

If the Question was stated, what Value a Peace with the Barbary States would be to a free independant City? I answer, nothing otherwise than could be proved more profitable in the Employment of their own Shipping, than those of other Nations; and, if it shall appear that Shipping-business is generally overdone, it is perhaps better for them to receive their Goods in foreign Bottoms, and confequently such Peace is of no Significance to them.

In this, a trading free City differs from a maritime Kingdom, where the fitting out, victualling, &c. is chiefly their own Produce, and where, though the Owners may lose, the Nation must be Gainers; but in such a City, distinctly considered, if the Prosit upon the Freight, and upon the Materials, do not compensate what the Maintenance of a Ship costs, it is better not undertaken.

Suppose it appears by this Reasoning, that a City loses upon the Whole by the Whale-Fishery, it would, surely, be better to quit it, though it may not be amiss to remain with their Neighbours, especially when it shall appear that some Profit may result to them from the same Commodity, in the general Circulation of Trade with other Nations, by dealing in Whalebone and Oil occasionally, as they shall be found meriting Attention.

SECT. LIV.

In a City, full of rich Inhabitants, and well fituate for Trade, where Liberty is preserved, Justice pursued, and Faith and good Order reigns, Trade will always remain and flourish; and, while more grow rich than decay, the Increase of Wealth will be visible; so the greatest Veneration is due to those Citizens, who so far endeavour to acquire Riches, as to live decently, and in common to encourage so much Shew of Magnissience, as may engage Foreigners to visit and reside sometimes amongst them.

SECT. LV.

The best Recommendation for the Employment of People in the public Service, independent of the Merit of their Ancestors, should be, their having given good Proof of knowing how to govern themselves, as not having lived above their Condition, nor purchased too dear whatever Qualities they may have acquired Abroad.

A trading City can rather spare a Man deep in learned Lore, than a rich Man, who has only learned so much, as to keep his Stock together; for, if he is not acquainted with the Arts of Trade, others will act for him, and his Money will operate more for the Benefit of the Society, than many full Heads, with empty Purses: However, wise Governours will make every Kind of Knowledge turn to Account; and, it is somewhere said, that a poor wise Man once saved the City.

SECT. LVI:

The more notorious it is, that the Income of a Country, City, or of an Individual, is more than they expend, the more doth their respective Credit advantage them; which Credit is, in many Respects, as serviceable to them as their Money.

SECT. LVII.

However great the national Debt and annual Expences of the Government are in England, it is generally agreed, that fince the Re-establishment of Peace, the public Revenues amount to more than the Out-goings, inasmuch as the Sinking-Fund amounts to above what may be applied: And, as no Money is ever borrowed for the Nation's Use, but a Fund is assigned for the Payment of the Interest, inalienably appropriated; and, as in other Nations, such Credit is insecure, as being subject to arbitrary Alterations, it certainly concludes, that greater Things may be performed by the Credit of England, than of any other Country.

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SECT.

SECT. LVHI.

A great Benefit refults from the public Cash, and the greater Part of the Trade of England centring in London, whereby when there is not any Fear of an Alteration in Government, most Species of Commodities are oftner affignable on Credit than through the Inter-Of Banks vention of Money, by the Channel of the Bank, whose Notes answer the Purpose of common Circulation; and therefore may, occasionally, make a double Use of their Cash.

SECT. LIX.

A Bank cannot be any where so extensive as in London; nor can such Wonders be performed by Banks as People usually imagine. The French Author of the Essay upon Commerce, after relating some Circumstances of the Banks of Venice, Amsterdam, and Hamburgh, says, "C'est à ce credit que les Republiques doivent leurs "richesses leur puissance," I am, on the contrary, consident, that the Fountains whence these Republicks drew their Wealth and Power, had their respective Sources in the Liberty of the People, and Protection of their Property: It was this increased their Numbers, and excited them to personal Diligence, and out of Industry and Frugality, their Augmention of Wealth and Power hath grown.

SECT. LX.

Bank of Eng-

The Bank of ENGLAND confifts of two Sorts of Creditors; the one of that Sett of Men who, in King William's Time, when Money was scarce and dear, lent the Public 1,200,000 Pounds at 8 per Cent. Interest, and 4000 Pounds allowed them for Charges, amounting in the Whole to 100,000 Pounds a Year, an exclusive Right of Banking as a Corporation for thirteen Years, under the Denomination of the Proprietors of the Bank; and which, for obtaining Prolongation of their Privileges, has been fince increased by further Loans to the Public at lesser Interest, to near the Sum

of 11,000,000, which, if we compute the Interest of 3 per Cent. (as what they have more on fome Part answers incident Charges) it produces 330,000 Pounds a Year; and as they divide annually 5 per Cent. to their Proprietors, which is 550,000 Pounds, it is evident that they make a yearly Profit of 220,000 Pounds out of the Money of the People who keep Cash with them; and these are the other Sort of Creditors. And, as for what Money the Bank lends the Government, they have, for the most part, but 3 per Cent. Interest, I conclude that the Credit-cash in their Hands may amount to 11,000,000; and thereout is employed in Loans to the Government, discounting of Bills, and in buying Gold and Silver, 7,333,333 Pounds, which, at 3 per Cent. Interest or Profit, will amount to the above 220,000 Pounds, and remains 3,666,666 in Cash sufficient for Circulation and current Payment. And Experience has evinced, that whenever any Mistrust has occasioned any Run upon the Bank, for any Continuance, and the People not finding the Treasure so soon exhausted as they surmised, it slowed in again faster on the one Hand, than it was drawn out by another.

The Bank, at present, advances to the Government at the Rate of 3 per Cent. 1,400,000 Pounds, to be repaid out of the next Overplus of the Sinking-Fund, for the paying of Navy-bills running against the Government at per Cent. Interest, unprovided by Parliament; and some think the Bank may advance for all Navy-bills so running, as it is Peace, and no Mistrust of their Power; and, as they do not lend Money, but Paper, upon which striking Principle it might as well be concluded, that the Bank was able to advance the whole national Debt to the Government. But, if these Gentlemen are at leisure to think, they will find that no Bank-Notes can be circulated for a greater Sum, than what is equivalent to ready Money Demands; and that the Bank, with the ready Cash deposited by those who keep Accounts with them, or for Notes only, actually circulates as many Notes as the Public will take, which never can exceed that Sum, which the People

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would keep at Home in Specie, if there was no Bank. Now if the Bank, from the 11,000,000 supposed above, is the full Amount of all the Cash in their Hands, by the Dividends they make, it is proved, that they use about 7,000,000 yearly in Advance to the Government, upon Land, Malt, Discount of Bills, Trade in Silver and Gold, &c. it is comprehensible enough, that extending themfelves further to a Loan of 1,400,000 Pounds, they go as far as Prudence permits; and the People within-doors, feeing what Cash they are answerable for, what is in Hand, and what Quantity of Bank-Notes fatisfies the Public, and what, upon fuch Sort of Advances, has struck at their Credit, can judge better what they are able to do, than People without-doors. If more Bank-Notes are iffued than is necessary, they must naturally return again, as no body will keep more Notes by them, without Interest, than just what is wanted; and therefore I suppose, that the Public is stocked with as many as the Nature of our public and private Transactions permit. And whilst the Proprietors of the Bank have Opportunity of circulating as many Notes, as by the Profit of the Cash on Loans gains them 3 a 4 per Cent. it is not reasonable that they should lend them on Deposits of Silver to private People at less Interest; although the same is done at Amsterdam, where the Bank is of quite another Nature, and has no other Opportunity of making fuch other Profits, as is evident the Bank of England have.

In London, befides this incorporated Bank, with fole and exclufive Priveleges, and of which any one may become a Member, by purchasing of Stock, which is transferable, it is free to all private Persons to make banking their Business; and there are many Bankers with large Capitals, and with whom People keep Cash; these likewise make Interest of the Money of others, and are justified in the doing it, as they charge nothing for their Trouble.

Nevertheless, all Banks and Bankers, ought to be very clear in their Strength or Abilities to lend, and so to calculate their Stock of Cash as never to be found in Deficiency, this being the sure Rule of establishing their Credit, and augmenting their Business.

As the Profit of the Bank of England arises principally from Government Loans, and the Credit of their Notes, and as the Government keeps Cash with them, as well as private People, they do, and always ought, to serve the Government on easy Terms, as it facilitates the Circulation of their Notes, by taking them in Payment in all the public Offices; which, if they did not, the Draught must be very great on them for Cash, and consequently could not dispose of so much for the Benefit of the Proprietors, as at present they are enabled thereby to do.

I apprehend, that the Cash of all the Merchants and Men of Business, as may have Accounts with the Bank, of whose Number I shall speak more presently, would not amount to half the Sum, if the Government's and public Companies Cash did not pass thro' their Hands; from whence it follows, that if any Person in the Management of the Bank will merely reason in the same Manner, as he does in his private Capacity, as why the Bank should not take as much Interest from the Government as from other People? Why serve the East-India Company on better Terms? Why discount Merchants Bills at 4 per Cent. when they can have 5? I say, a Man

fo reasoning, should study to be better informed.

On the other Hand, as by the Means of the Bank, the Government obtains Money on more easy Terms, and can always, on a sudden, find Assistance there, great Care should be taken not to do any Thing to its Prejudice, or to injure its Credit; nor should the Gentlemen in the Management of the Bank, ever suffer themselves to be led beyond certain Bounds, by Experience proved to be too enterprising. It is hoped, that some make it their Study to know the Strength of their Body, so as to rectify what they find to have been faulty.

They have had the Experience of two Rebellions, when the Government required more Cash, for the Use of the Army, and Bank Notes, not equally significant when amongst private People, there

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was a Mistrust of public Credit, and a Run against the Bank continued some Time; they can thereby judge of the Essect it had upon the Whole, how much it lessened their Treasure? What Specie remained? What Quantity of Bank-Notes still circulated? And whether the Method they made use of answered their Purpose? Of all which it is difficult to form a Judgment without-doors: Yet, to me, as a Stranger, residing in England, during the last Rebellion, it seems that some of the Methods, then used, had little, and some of them, quite contrary Essect.

One of the first was that of the Subscription; or, as it is usually called, the Circulation, which is annually created to lend the Bank per Cent. whenever called for; on a Million for the Year at which Account 10 per Cent. is paid in to be forfeited on Failure of future Calls; and although, upon all other Occasions, the Subscription has been filled, for the most part, by People in the Management and their Favourites, it was whispered, at this Time, not to be full, and only upon a further Call for 10 per Cent. more, the Subscribers were out of their Wits, and fold at per Cent. (7) Loss to saddle it on other People. But, suppose the Subscribers had entirely made good their Engagements, it could not have answered the proposed Purpose; that is, in Case of a Run upon the Bank, they might, by this Means, have obtained a fresh Supply; for the Subscribers, being Persons who generally keep Accounts with the Bank, comply by making Affignments of their Property, which truly is and ought to be esteemed good Payment, but answers not

Pounds is given 6 ½ per Cent. and for all future Calls 4 per Cent. only, the Advance 2½ on the first 100, makes the Subscription courted; and those who have Interest to procure it, commonly dispose of it again in Change-Alley at a handsome Advance, before even they have paid in their Subscription-money; and as this can be so done, it is of great Advantage to the Directors and their Friends; and as much of this is so disposed, it rests in the Hands of the Purchasers, who, generally speaking, have neither Interest in, nor Account with the Bank, nor often any other Money, it being thought no Risque, as the Calls have never been made, but on very extraordinary Emergencies.

the Purpose for which the Subscription was intended, the bringing in a Supply of Specie to answer the Requisition of mistrustful People. It should seem to answer the Purpose better, if the first 10 per Cent. was made by Assignment, and the Subscribers on suture Calls be obliged to bring in foreign Gold or Silver at Standard Price; which Condition, though it would certainly merit a higher Premium than is now given, yet I think it would be well bestowed.

But, as the Subscribers are answerable to, and Contractors with the Proprietors of the Bank, the Trustees should never be admitted in any such Subscription to a larger Share than they possess of Bank-Stock.

There is another Thing, which, to my Apprehension, was equally a Mistake; it was the purchasing large Quantities of Silver, brought in by the Privateers, and giving Bank-Notes or ready Credit on Account for it, which increased the Run faster on one Side, than they could coin it on the other, and from which they might probably have been excused, by obtaining his Majesty's Proclamation for the current passing of foreign Bullion at per Ounce, whereby the Charge of 2½ per Cent. would have been saved to the Nation on the Coinage, and for which, when public Credit came to be restored, there was not any Occasion, and must needs go to the melting Pot again.

It feemed likewise very bad Policy, to make use of the last Refort, the paying only in small silver Coin, as it naturally with the Mistrust increased the Run. I am apprehensive, that Bank-Notes would have been more useful for the King's Service, if they had not made the Change of them so difficult, and which could not have happened, if while there was any Quantity of Gold and Silver, they had continued to have paid in the usual Manner (8).

⁽⁸⁾ Perhaps the Reason of paying in small Silver might be a Suspicion, or something more, that much of the Money, so attempted to be drawn out, was to supply the Rebel Army; in which Case this Method rendered it in some Measure impracticable.

But one very good Thing was then hit upon by some Persons out of doors in Favour of the Bank, and which ought to be retained in Memory, as the Specific to be made use of on the like Occasion; this was an honorary Engagement, entered into by almost all the Merchants, Bankers, and Men of Business, to take in Payment, any Notes or Affignments in the Bank, whereby further evil Consequences were avoided, and Time gained for every one to prepare himself for the worst; and if we consider as it is explained in Section XXIX. what small Part the Money maketh amongst the Goods, wherein the Riches of a Nation confifteth, their Fear from a Stoppage of the Bank heed not have been so great, because, fuch Goods would foon have fetched from Abroad, what Specie was wanted: And however great and good the Bank and national Credit of England may be, the national Wealth is in the Overplus of Effects possessed by Individuals, where Plenty glances over most Parts of the Kingdom. And although some of its Neighbours may have more circulating Coin, yet will none be found who have fo much wrought Plate, Jewels, &c. and what is better than all, fo great Value in Goods, Provisions, and Stores more than what the Kingdom wants.

SECT. LXI.

Bank of Am- The Bank of Amsterdam has the Fame of more Treasure than any other; the French Author of The Essay on Commerce says its Capital is 400,000,000 of Gilders; and the Amsterdam Edition of that Book is noted in the Margin 8 or 900,000,000, which amounts to 80,000,000 Sterling. Davenant seems assured that it is 36,000,000 Sterling, effectual Money Gold and Silver in Bank, and that their Transactions are not with Money, but by Assignments.

But, as such Assignments cannot be made out but with or by the Intervention of those that keep Accounts with the Bank, if then we can make a shrewd Guess at their Number, it may be nearly concluded what the Sum amounts to; as it is not to be presumed

that

that any Money can be in the Bank but what some body must stand Creditor for. Now it is known, that although Amsterdam has in Proportion to its Inhabitants, more Merchants than London; but as London contains sour to one more People than Amsterdam, there are more Merchants and Men of Business, who keep Accounts with the Bank. The utmost which appear in the (9) London Directory are 2800, and most probably at Amsterdam not half so many; and altho many have Accounts with the Bank who are not resident in Amsterdam, it is the same in respect to London; and if it was even admitted that there were in Amsterdam 3000, and each of these to have on Advance 10,000 Guilders, the Amount is 30,000,000 of Guilders; and if 20,000, 60,000,000, which I am persuaded is much nearer the Truth than what is afferted above.

It is known in Amsterdam, that besides Bank-money, there are various other foreign Species current, and that a great Number of Traders do not keep Accounts with the Bank. A Treasure of 60,000,000 of Guilders is 5,500,000 Pounds Sterling, and is a Sum wherewith great Things may be done for the public Service.

Sir WILLIAM TEMPLE says, "The Place which contains the "Treasure, is a great Vault under the Stadt-bouse, made strong with Doors, Locks, and other appearing Cautions of Sasety; and it is certain, that whoever is carried to the Bank, shall never fail to find the Face of mighty real Treasure in Bars of Gold and "Silver, and may be so for ought he knows. But the Burgo-"master having only the Inspection of this Bank, and none other taking any Account of what comes in or issues out from Age to Age, it is impossible to make any Guess what Proportion the real Treasure holds to the Credit of it."

⁽⁹⁾ It is to be further observed, that there are many in the London Directory that keep Cash with private Bankers; but there are likewise many who are not in the London Directory, that keep Cash in the Bank, and to a very large Amount; and who, not being trading People, rest it longer there, besides the public Companies, which is not the Case in Holland.

Whereby even Sir William seems to doubt if all is Silver and Gold contained in the Bags; but I doubt it not in the least, because we know, that while it only remains as a Deposit, the Bullion is at the Disposition of him who made it; so there must be continually a great Store that Way. Perhaps Sir William never saw 2 or 3 Millions Sterling Gold and Silver disposed in Ware-houses, as is commonly the Case at Cadiz, on the Arrival of the Galeons, as is seen by People resident there; and there is perhaps in the Possession of a neighbouring PRINCE, more Treasure than in the Bank of Amsterdam.

The Bank Money is fixed to be regulated by Ducatoons of 14 Loot 16 Grains fine at 3 Guilders, or 60 Stivers Bank Money, which pass in Current for 63 Stivers, and so compound an Agio of 5 per Cent. yet as a Quantity of Ducatoons is not always to be met with, the Agio rises and falls.

But you may bring in feveral Kinds of Specie into the Bank, and you will have Credit for it, at \(\frac{1}{4}\), \(\frac{1}{4}\), \(\frac{1}{4}\) per Cent. Interest for fix Months, and are kept placed to your Account so long as you pay the said Rates of Interest.

By a Letter dated the 10th of December, 1751, I received the following Information from Amsterdam, of the several Species that can be deposited at the Bank, viz.

GOLD in Cruzades by Marks 22, for which the Bank makes good at — 310 F. per Mark.

Ducats weighty by 1000 Pieces, at 4 F. 19 Stivers, more or less.

SILVER SPECIES.

Mexico Dollars,	by	Marks	100	_	F. 22	per M	ark	With a Pieces	
Pillars		_	100	-	Ditto	_	-	With 2 Pieces above each 100 Marks.	
Sevilians	_	_	100	_	Ditto	-	_		
Crowns French	-		100	-	Ditto		-		

SILVER

SILVER SPECIES.

Ducatoons old, by 200 \{26:2:15 — 60 Stivers per Piece.

Ditto new - - 200 26: 3: 12 Ditto, Ditto

Rixdollars - 200 22: 5: 12 48 Stivers, Ditto

These Species being brought in, and left in the Bank, must be renewed every six Months, and made good to the Bank:

1 per Cent. on the Gold,

1 Ditto on the Pieces of and Rixdollars,

Ditto on the Ducatoons;

But can be taken out again at any Time, by making good to the Bank the above $\frac{1}{2}$, $\frac{1}{4}$, or $\frac{1}{8}$ per Cent. over and above the Capital.

The greatest Loans are made upon Spanish Piasters, on which they lend 22 per Cent. per Mark, paying † per Cent. for six Months, for which small Premium, you have a Chance for the Rise during six Months in your Favour, which often happens within the Time, and is a great Encouragement for the Trade of Bullion; and altho' the Premium so taken by the Bank is small, yet the great Sums so lent, must make the Profits very considerable in the Circuit of the Year, and without any Manner of Hazard; because it is not Money, but only Credit, which they lend, or assign you; which Credit, upon drawing out the Bullion, is re-assigned. J. P. R. in his Negoce de Amsterdam.

In ENGLAND I have often heard the Merchants murmur against the Directors of the Bank, for not doing the same as at Amsterdam; for, say they, what is it they lend, but their Notes? And if Cash is necessary, can it not always be coined out of Gold and Silver? And truly this seems at first to strike; but when the Change of Coinage is considered, (Vid. Sect. LXXVIII. infra) it is hardly to be expected that the Government should be exposed to the losing

of such Sums without Limit for a Profit to the Bank of only + per Cent. Besides that the Coinage is limited by Parliament at 15,000 Pounds a Year.

In the Bank of ENGLAND, the Gold, Silver, and Credit, runs promiscoully, but in Amsterdam they are separate Things. If at Amsterdam you have great Credit, you have no Right to call for Ducatoons at 60 Stivers, as at London, Guineas at 21 Shillings, but only he who brings in Money by Way of Deposit, while he continues to pay for its keeping, has a Right to draw it out in the same Specie; upon which, in the mean while, he stands credited, and may assign against that Credit to other People, who have Demands upon him for Bank Money, and they may assign farther.

It is not very likely, that when People first brought their Money into Bank, that they divested themselves of a Right to draw it out again at Pleasure. But perhaps, in Process of Time, some Inconveniencies resulted to the Public, by the drawing of too large Sums out at once, which induced the Proprietors, as good Patriots, to consent to its being kept there altogether; or perhaps by the Sums deposited at fixed Prices, and the Falls of Gold and Silver, it might happen, that People lest some Parcels in their Hands, which is become a fixed Treasure in the Custody of the Bank; and since the Profit of the Bank is applied to the public Service, Nobody will blame the Persons in the Management, for making some beneficial Use of their Wealth.

Besides the Profit of lending on Gold and Silver, it is known, that they furnish the Lombards with Money, &c. and how much or little they keep in Hand for those who have Credit, and only a Right of assigning against it, Knowledge of the Remainder centers in very sew. Yet every body knows, that there always lays a great Treasure; and while the Depositors continue to pay Interest, they are sure that their Deposits are preserved for them in their own Bags, sealed up, ready to be delivered at any Time.

By thus giving Credit in their Books, the Bank is not in any Manner exposed to a Run upon them, but it is for him that maketh the Deposit, to know how far he can make Use of affigning on the Bank, which has its Bounds, and cannot extend itself beyond the Circle of Amsterdam Exchange-business. And although Amsterdam has made itself the greatest Place for Exchange to most of the trading Cities in Europe; and all Bills above 300 Guilders, by Law, must be paid in Bank-Money, which gives a large Field for Assignments; yet it will not go beyond the Amount of Cash, which would else satisfy the Demands naturally occurring to that Number of People who keep Accounts there, so cannot extend its Credit further than is hinted above Sect. XXIX.

Whence another Question may arise, that as the Possessor Accounts of Gold and Silver brought in by Way of Deposit, have only a Right to call for Specie, how would it be for all other People, who have Money good upon their Accounts, in Case of Danger, as of an approaching Enemy, &c.?

There then must, doubtless, a general Assembly reside in the Majority of the People concerned, with Power to call their Trustees to Account, and to demand a proportionate Share of what Cash there is; and, I doubt not, but that they have a good Stock of Specie in Reserve for that Purpose: But, the same as in the Credit of the Bank of London, much of it might be out and otherwise invested, perhaps lent to the Public, which the Bank of Amsterdam can do with more Security than the Bank at London, as it is not equally exposed to a sudden Run upon it.

In 1672, when the French Army were in Utrecht, the People of Amsterdam thought themselves in great Danger, and were pressing to draw out Money from the Bank, which accommodated as many as they could, keeping all Hands at work to pay out Money; but as all could not be dispatched so soon as they wished, some sold their Credit at 4 or 5 per Cent. Discount; whereupon

feveral

feveral rich Men appearing to buy, which the People perceiving, the Run foon ceased, and the Money was as fast paid in again.

Upon the whole, I find the Banks of London and Amsterdam equal in Goodness; and although the last has a great Name, yet that the first very much exceeds in Value.

SECT. LXII.

Bank of Hamburgb.

The Bank of HAMBURGH, besides easing the Merchants of the Trouble of counting their Money, seems to be an essential Benefit to the City, as having determined not to take therein any Specie in Payment but Rixdollars of full two Loot Weight of their own, and of the Standard of the Empire, which is 14 the fine in 16, whereby they can keep up a certain Proportion of all other Coins to the Value of Goods, so as to answer the fixed Bank-standard, which is of Consequence to them, as it opens to their View instantly, what Damage any foreign Alteration in Coin causes, by which Means all their Affairs are regularly adjusted and ascertained.

By Sir Isaac Newton's Affay, a Hamburgh Bank RIXDOLLAR was found 8 Penny-weight worse than English STANDARD.

This Bank was first erected in 1619, wherein the Citizens only are permitted to keep Accounts; and according to the Multiplicity of each Man's Business, he, every Year, on paying a Gratuity to the Clerks, takes up a new Folium, or the Number upon which his Accounts stand in the Bank Leidger. When Specie is brought in, the Bank gives Credit for each 1000,—1001; and when Specie is drawn out, makes the Drawer Debtor 1001; and when Specie is drawn out, makes the Drawer Debtor 1001; no that the Bank has if per 1000 for Trouble and Charges; and till of late Years, all who had Demands, drew out what Cash they pleased; but, for some Time past, it being alledged that such Draughts might expose the City to be drained of all its good Coin, a Method has been settled for drawing only within certain Limits prescribed, which proceed partly from a Coinage of current Money, which the City

made

made in 1726, out of the general Bank Cash; when, till that was effected and dispersed, it must needs cause a Stoppage in Part, of answering all the Specie Demands.

By its Institution, published December 31, 1639, Article XXXII, it is faid, "That the Bank shall not make any Loans, but upon Hypo-" thecations, or Deposits of Gold or Silver, and only when there is a " great Store of Cash." However, it is known, that, at present, they lend upon Copper at 2, 2 + per Cent. Interest, that they furnish the Lombard House with what Money it wants for Loans on private Pledges; and that it lays in Stocks of Grain for the Use of the Public, When I was Apprentice in Hamburgh, their Folios did not amount to above 600; whence it may be concluded, that no more kept Accounts in Bank: And as Merchants rarely let much Cash lie unemployed, I cannot think that the Treasure is so considerable as many imagine. I have heard the People of Hamburgh complain of their Bank not letting out Money as cheap as that at Amsterdam, but the Difference is obvious; as the Bank of Hamburgh, like that at London, is subject to a Demand of real Specie, which that of Amsterdam is not, as before remarked; and therefore under its present Limitation, cannot be otherwise conducted for the public Service. But, it is certain, that was it opened to Foreigners, and for the Reception of different Coins, it might be made proportionably more beneficial to the City.

SECT. LXIII.

There are Banks of divers Nature in several other trading Cities.

NUREMBERG has one established ever since the Year 1621; Bank of Naand by a new Regulation, published Aug. 26, 1721, Article VII. rembergh.
the Bank is only to receive Silver-Coin, such as, till then, had
been usual, viz. all Guilders, whole and half Rixdollars of the
Emperor's, Electoral Princes, and Cities of the Empire; French
Guilders, such as had been usually admitted; Saxon and Brandenburgh

burgh Guilders, or those so called, new ? Pieces, and no other. Sorts of Coin.

The Persons who keep Account with the Bank at Nuremburgh, are obliged to pay by Article VIII. fix Cruitzers, i. e. about Fourpence for each Sum that they receive and pay, as at Amsterdam 2 Stivers for each Sum they write off there. All Bills of Exchange amounting to 50 Guilders, and upwards, and the Value of all Goods amounting to 200 Florins and upwards, are by Article III. to be paid through the Bank.

It appears by Article X. that there is not any Limitation of drawing out Sums of 50 Guilders and upwards.

Bank of Ve-

Venice likewise has a Bank del Giro of long standing; and in the regular Course of Trade, most Bills of Exchange from Abroad are made payable in Bank, the Payment, like as at Amsterdam, being only by Assignment from one Account to the other, for which the Republic is jointly bound, and bears an Agio of 20 per Cent. and a Super-agio of 17 a 18 per Cent. which could not be, if they did not remain within certain bounds, and is a Security merely depending upon the Credit of the Republic: Bills of Exchange are in the common Course, not payable in Bank but with Cash, and customarily Transactions in Trade are done in this Place for Specie.

Bank of Genoa.

GENOA. The Bank of ST. GEORGE was in high Credit, until the Government impolitically entered into the late War, wherein, having expended the State-Treasure, which was the Basis whereon it was constructed, the whole Building necessarily fell, and will with great Difficulty, if ever again be recovered. This justifies some of the preceding Maxims, and evinces how cautious a trading Republic ought to be of embroiling themselves in the Altercations or Disputes of the powerful Princes on the Continent, or in any warlike Engagement, but what immediately respects the smoothly carrying on, or Support of Commerce.

Dominico Peri, in his Negreiante, gives us a Description in what Manner the Revenues of the Republic were appropriated to the Support of the Bank, and of the Nature and Value of the Treafure. But the Debts of the State are at present so large, that sufficient Funds cannot be found to make good the Interest; and while that is the Case, it will be impossible to recover its Credit.

Upon the whole, they are the best and securest Banks, that are judiciously kept within certain Bounds; and if they lend out any of the Money intrusted to their Care, that they do it on Effects which at all Times bear an equivalent saleable Value; and are in their own Power to be turned readily into Cash.

SECT. LXIV.

At such Places only where daily great Sums of Money are paid forward and backward, and a great Store always remains amongst its Inhabitans, by erecting a Bank much Trouble in counting of Money is saved, and with the Cash some Utility may be produced to the Public without any Detriment to the Bank-creditors.

In Countries where Experience has shewn, that national Debts have always been well paid, many Things may be as well obtained with public Credit, as with Cash; and when Bank Bills pass current, it is in the Power of the Bank to be serviceable to the Public, but it ought nevertheless to be grounded upon real Value in Possession. And if for Bank-notes, all Goods, Arms, Ammunitions, &c. cannot be purchased as well as with Money, it will betoken Want of Credit, and its Condition suspected.

Attempts to obtrude upon People more of such Notes than the Nature or Circumstances of Times will permit, or that readily would pass amongst them in lieu of Money, have always miscarried.

SECT. LXV.

Trading Nations, who are not only stocked at Home with Money, but with all Kind of Things worth Money, have Goods M Abroad,

Abroad, and Debts outstanding, with whom they trade, are the less exposed to any sudden Ruin, as where their Demands are, their Friends will be, such Credit and Effects operating powerfully in Favour of their native Country.

The King of ENGLAND, in his Merchants, who trade in all Countries, and have every where Effects lying on their Accounts, if such Merchants are well affected, is better supported by their Wealth so divided, than the Kings of Spain and Portugal, the Wealth of whose Subjects lies chiefly in the West-Indies, as 10,000 Pounds at Home, or near about us, is of more Service than 20,000 at so great a Distance.

SECT. LXVI.

From our exporting Goods by one Set of Men, and importing them by another, arises a third Sort, which acts the middle Man between both, in receiving or paying their Money Abroad, or supplying them before-hand, which are the Dealers in Bills of Exchange, payable at a certain Time Abroad, and receive from thence Bills payable at a certain Time at Home, whose Regulation is governed, little more or less, by the intrinsic Value every Country's Coin contains, making an Allowance for the Time they stand in Disbursement, and what is saved by not sending the Money backward and forward, whereby such Dealers make now and then something more than common Interest. And as they also have on Account of People Abroad, much to receive and pay, the Intervals which naturally occur, gives Room for making another Benefit, and in these Men is a further Strength at Home, as they are both foreign and domestic Bankers.

SECT. LXVII.

It is known amongst Merchants, that in those Countries from whence Goods of a greater Value are exported, than imported, either Balance or Money may come Home, or it may tend to the Increase of our Property Abroad, by keeping it there, in Money or Value at Disposal. Thus it is not merely by the Quantity of Gold, and Silver circulating amongst us, that we are to judge of our Merchants Wealth, but rather by what Goods they have at Home and Abroad; and when we find that Goods lie every where on their Account, and People Abroad stand indebted to us, it is a furer Mark of being powerful and rich, than by our having fomewhat more or less of Cash at Home, as it is the least Part of their Wealth, and which none in Trade keep by them more than is immediately necessary. And however strange it may appear, it is certainly better to have a Stock of Commodities Abroad, than ready Money lying dead at Home.

SECT. LXVIII.

In Time of Peace, when there is no Need of circulating Money Par of Exfor the public Service, but proceeds from the Current of Trade, change and Balance of we have the Course of Exchange compared with the intrinsic Va- Trade. lue of the Coin between us and other Countries; or which is better the Price or Value of Bullion between them and us, will shew where the Balance lies; but to find out from whence it proceeds, and what Remedies to apply, we must come to an Enquiry of all the particular Sorts of Goods, and feek to suppress or lessen the Use of fuch as can be spared, or supplied from our own Produce.

SECT. LXIX.

Above one hundred Years fince, GERARD MALINES, a Man Author of Lex of great Knowledge in the Laws and Customs of Trade, as appears Prefumption by his Lex Mercatoria, still in Use, was one of the Commission and Error. then appointed to enquire into the Nature of Exchange, and, if poffible, to fix a certain Par, according to the intrinsic Value of the Coin in each Country, with whom England trades, who wrote feveral

feveral small Tracts on that Head, the Substance whereof is to be found in his said Book, (10) pretending to know several Mysteries in the Business of Exchange, and of great Mischiefs to be remedied by the King's Authority, in fixing a true Par pro pari, which no Merchant should exceed by Bills of Exchange. But another Merchant his Cotemporary, Thomas Munn, sully consuted him, and plainly evinced that there were not any such Mysteries in the Business of Exchange, nor any such Wonders to be performed by what he proposed. This Resultation was published under the Title of England's Benefit and Advantage by foreign Trade; and old as it is, will still be one of the truest and best Books on Trade extant, only making some Allowance for his Prejudice to the Dutch, which perhaps, at that Juncture, was not without some Reason.

Refuted by Thomas Munn.

DUTOT.

Politiques fur les Finances, which he wrote to prove what had been long before proved by Rice Vaughan, and fince by Mr. Locke, That Monsieur Melon was in the wrong in his Essaie fur le Commerce, maintaining it to be good Policy, to raise the Coin in France, when the Crown was greatly indebted. Dutot then proceeds into an Enquiry concerning the Balance of Trade, and there loses himself in a Labyrinth of Calculations, to shew this Balance by comparing the Exchanges with the intrinsic Value of the Coins of each Country.

Examen of his Works.

One other French AUTHOR, in a Tract entitled Examen fur les Reflexions Politiques, pointed out several of his Errors, and evinced his Calculations to be of no Weight, as to the Balance of Trade; in which, if any thing was to be amended, it must be the Result of an Enquiry of what Goods were imported and exported, which is

⁽¹⁰⁾ Page 409, and the Maintenance of Free Trade, Pag. 16. He wrote besides a Treatise on the same Subject, entitled the Canker of England's Commonwealth; and one other entitled the Centre of Trade.

not sufficiently shewn. But in each of these French Authors, there are many Observations worthy a serious Attention.

SECT. LXX.

When Sir Is AAC NEWTON had the Inspection of the English Sir Is AAC Mint, he made, by Order of Council, Assays of a great Number of Newton. foreign Coins, to know their intrinsic Values, and to calculate thereby the Par of Exchange between England and other Countries; of which a Table is given by Dr. Arbuthnot; and he says, you may thereby judge the Balance of Trade, as well as the Distemper of a Patient by the Pusse. And this, it seems, induced Dutot to follow the same Path in calculating the Par of Exchange, and by a Par simily, says, that the Balance of Trade may be thereby as well judged of as the Weather by a Barometer: But both these Similies, and both these Facts, are equally fallacious.

No doubt, but that under the Direction of so great a Man as Sir Is A A C, the utmost Accuracy has been observed in making these Assays, and the intrinsic Value of the Coins, as set down. However we find some small Difference in the Assays of the greatest Masters: And but lately by sour Bars of Gold assay'd in London, and sent to Amsterdam, they turned out as follows.

	At	London.	, mass 1				At A	nster	dam		
Bars		I a 22—0	The second second	_					14	7	
	101 —	1-23-0	1- 12	6	4	-23	1	12	7	2	17
1	10 —	5-22-3	3 - I	2	6	1-23		1	5	8	5
	63 —1	2-22-0	1 - 8	0	7	1 - 22	1 3 -	7	10	2	I I
	2740z. I	9	34	. 6	3		Weight	32	13	8	23
* 92.0	A SAN DE SAN		8			a 355	F11	563	6	-	_
	274 19		278	3 20		Agio	3	43	7	-	
	5499		5563	i i			F.—11	606	13	-	-
whic	h makes	100 Ounce	s in Lone	don	to	be 10	1 911 C	unc	es i	n /	1m-

sterdam.

Consequently either at London or Amsterdam, there was a Want of Exactness. But to fix the true Par by the Coin of their respective Countries, no use should have been made but of Coins of an exact Weight, such as is by Law prescribed in each Country. And it appears by the different Weight of these several Rixdollars of the Empire, set down in the Table, that some of them have probably been worn off.

Formerly, they were not in general come to such an Exactness in coining as at present; for even quite new Pieces were a little more or less than Standard-weight.

Spanifb Par.

In this Table stands first a Piastre of Seville, weighing 17 Pennyweight 12 Grains; whereupon the Par of Exchange is calculated. Then 1000 Piastres in London should weigh 875 Ounces: But it is notorious that 1000 Piastres in Spain go at 117 Marks 2 Ounces, and in London seldom turn out above 867 to 869 Ounces. The exact Weight of a Piastre in Spain, at present, is 15 Adarmes, and so 1000 weighing 117 Marks 12 Ounces, will pass for sull weighty in their Payments; whereby it seems to be clear, that the Piastre which Sir Isaac Newton made use of, and calculated the Par by, has been over-weighty.

Or if it was a Piastre of an older Date, when out of a Mark of 8 Ounces, 11 Penny-weight, 4 Grains, were coined 67 Reals, and 8 made a Piastre, then 1000 Piastres, full Weight, corresponded to 119 27 Marks at Cadiz: And so as 117 4 Marks at Cadiz makes 867 4 Ounces at London, 1000 Piastres, or 17,350 Penny-weight 119 27 Marks correspond to 17 Penny-weight 16 Grains a Piastre, and then it was too light: But however it may have been, the Spaniards having since made Alterations in their Coin, the Par is not to be judged by the past, but by the present.

An old Dollar of *Hamburgh* Bank-money stands in the Table 18 Penny-weight 9 Grains; and I have, by a Parcel of Gold sent from *London* to *Hamburgh*, experienced that 1000 Marks of *Cologne*, correspond with 7510 Ounces at *London*.

At Hamburgh the Bank-dollar must weigh exactly 2 Loot, or an Hamburgh Ounce, which corresponds with 18 Penny-weight 18 Grains London Par. Weight: Whence it is evident, that the said Dollar, and by which the Par of this Table has been calculated, must have been under Weight.

Therefore, to make the Calculation of the Par quite exact, they should have procured with some Coins, a Set of Weights out of the respective Mints abroad, describing by the Law of the Country, how much of each Specie ought to go to the Ounce, Pound, or Mark, so as to be able to ascertain both the Difference of Weight and Fineness.

In the Book called the European-STATES-CHANCELLERY, which is yearly published, and contains all the Transactions of the Empire at the Diet of RATISBONNE, Part 71, we find that in 1738, there were Assays made of a great Number of Coins, by seven Assay Masters of the Empire, for that Purpose appointed; and upon a Resolution of the Diet, dated the 10th of September, 1738, it was directed to adjust all by the Standard of Leipsic, which is of Imperial 14 Loot 4 Grains fine in a Mark of Cologne of 16 Loot, and 8 Rix-Standard. dollars to be a Mark, each Rixdollar 2 Loot, and to pass in Germany for 2 Guilders.

By the Assays it is noted in the said Masters Reports, that they found by a Parcel of Guineas from the Year 1698 to 1720, that they were of 22 Carats I Grain fine, and that 28 ± Guineas, were equal to I Mark Cologne; consequently I Guinea worth 8 Florins 46 Kreuzer I 1345 Penny-weight: Now if we calculate that a weighty Ducat, by the Standard of Leipsic, is worth 5 Florins Amsterdam Bank-money, which pass in the Empire for 4 Florins, then,

4 Florins.

a 60 xrs.

5 Florins.

a 20 Stivers.

As 240 xrs of the Empire is to 100 Stivers Amsterdam,

fo i Guinea

or 8 Florins, 46 + xrs

is worth 219 + Stivers,

36 + Shillings Flemish.

Amsterdam ditto Par,

And

And 21 Shillings English being 36 + Flemish, then 1 Pound, or 20 Shillings Par in Gold, is 34 9 + between London and Amsterdam.

But the main Question is, whether the said Masters were right in their Position, that 28 ½ Guineas ought to weigh a Mark COLOGNE.

To discover which, we know in England, that by Law, there should be $44\frac{1}{2}$ Guineas in a Pound of 12 Ounces Troy, and so $28\frac{1}{2}$ Guineas must weigh $7\frac{61}{89}$ Ounces. Now if we admit $7\frac{61}{89}$ Ounces of London equal to 8 Ounces Cologne, then 100 Ounces English would be but $104\frac{64}{6884}$ Cologne; by which I am convinced, that the Guineas of which they made use, were under Weight; because, by the following three Proofs made by myself, I have found 100 Ounces English $106\frac{8740}{11993}$, $106\frac{3960}{7510}$, $106\frac{894}{1501}$.

FIRST, I received 40 quite new Ducats, coined at Amsterdam, 1745 and 46, and found them to weigh in London 4 Ounces 9 ?
Penny-weight.

And as by the Ordinance of Amsterdam, 67 Ducats must weigh 8 Ounces Cologne; so 40 Ducats must weigh $4\frac{52}{67}$; consequently, If $4\frac{9\frac{1}{100}}{100}$ at London are $4\frac{52}{67}$, then 100 at Cologne 106 $\frac{8742}{11993}$.

SECOND, by a Parcel of Gold in Bar, sent from London to Hamburgh, I found 7510 Ounces English, to correspond with 8000 Ounces of Hamburgh; and so 100 Ounces must be 106 \frac{3960}{7510}.

THIRD, by a Set of Weights, quite new, and tried at Amsterdam, which I had sent me to London, I found a Mark Troy from Amsterdam to weigh 7 1.8 Ounces Troy at London.

And so, if $7\frac{18}{20} = 8$, then 100 = 101 $\frac{29}{79}$.

And as in Amsterdam 19 Marks Troy are 20 Marks Cologne,

Then $101\frac{29}{79} = 106\frac{894}{1301}$, which sufficiently proves that the Guineas made use of by the German Mint-masters were too light, and therefore the Par above calculated, must exceed $349\frac{1}{7}$.

If

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To come nearer to the Truth, we admit $106 \frac{1}{2}$ Ounces Cologne = 100 English, so $8 = 7\frac{100}{215}$. Now, as 12 Ounces make $44\frac{1}{2}$ Guineas, $7\frac{100}{215}$ make $27\frac{2155}{2556}$; Consequently, computing $27\frac{2155}{2556}$, to weigh 67 Ducats,

If 585 are 1042 what 20 S. Sterling.

Makes 35 7 1, the Par in Gold,

Which nearly agrees, when we reckon in lieu of $28\frac{1}{2}$ Guineas at 8 Florins 46 xrs, to be 249 Florins 51 Franks to be divided with $27\frac{2188}{2886}$, it will appear that a Guinea in Germany is worth $8\frac{69016}{71200}$ Florins. And so if 4 Florins of the Empire are at Amferdam

6)100 Stivers, then 8 69016 Florins is 16 2 Shillings Flemish.

149

is a Guinea 37 3 S. Flemish.

If 21 s. is 37 1, then 20 S.

The Par is $35\frac{35}{63}$ in Gold.

Or calculate as follows.

284 1	Mark Grain Mark			=	265 1 1116 1	Grain Mark Shill.	Ducat (22 1 Carat,
200	4				265	71		6)6700
284 3		_	_	=	3350-	-67	180()	1116 ² S.
1136	•	_	-1	2		757 265	101	ana 28271 Lair
Rossio (De Califalia		o osil e		ipt 1	23 285 951	The second	eanja M	this of the same
100	Marks		Onle.	r. 10	1260	600	w ii i	
		s Englis	В		1200	-	Marks	to
a .	3 1. 17	10 1	1	136)1260	60500	9	
If 311	5 1. Ster	ling are	_	_	1	10969	Sterling	Flemish, then
				1 1.	Sterling	g is 35	s. 7 ½ F	Tlemish.

But as there seems some small Difference in the Assays made by the Mint-masters of the Empire, in calculating that 22 1 Guineas fine in a Mark Cologne, when in England, the Standard is 22 fine in a Pound Troy, then the Account of Par stands thus;

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[ 51 ]
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100 Ounces English = 106 + Ounces Cologne,

24)2200

fo if 100 contains 91 3 fine, 106 1

Fine 91 3

contain 97 5 fine.

And as fine Gold in Germany is of 288 Grains,

and Ducats of 284

you are to add the 4 Difference, or 1 is 1 6 19

And so if 8 Ounces are 1116 7 S. - 99 Oz.

13818 3 Shilling

And as 100 Oz. a 1. 3 17 10 1

or 389 3 1. are 13818 S.

1 1. gives 35 1525

Shillings Flemish, Par of the Exchange.

Now to calculate likewise the Par upon the Value that filver Coins bear against each other, between England and Holland,

Admit 100 Ounces English to 106 1 Ounces Cologne,

a 11 1 fine

12)1182 3

98 41 fine.

And as Ducatoons in Holland are of the Fineness of 14 Loot 16 or 268 Grains, In fine Silver of 288

- 98 41 Ounces, 288 So if 268

gives Ducatoons 105 1 Ounces.

And as out of 8 Ounces in Holland are coined 7 + Ducatoons, a 60 Stivers, or 10 Shillings Flemish, Bank-money,

which for 7 th make 72 th,

and 100 Ounces in England 8)7648 3

if 516 3 Shill. Sterling are 956 3 Sh. then 20 Sh. Sterl.

is 37 1 Shill.

Par of the Exchange in Silver.

which

which agrees very well with the Difference of our giving in England in Coin more Silver for Gold, than in Holland, viz.

In England Silver 15 \$\frac{4495}{68200} = 1 \text{ Gold } as shall be proved by In Holland Silver 14 \$\frac{80010}{154605} = 1 \text{ Gold } and by.

And so if 15 \$\frac{4495}{68200} - 14 \$\frac{80010}{154605}\$, then 37 \$\frac{1}{153}\$ will be as above, the Par of 35 S. 7\frac{3}{4}\$ in Gold.

S E C T. LXXII.

ver or gold Coin. Mr. LOCKE, in his Confiderations on Money,

The Question then is, whether the Par should be ruled by fil-

fays, "I have spoken of silver Coins above, because that makes "the Money of Accounts, and Measure of Trade all through the "World; for I think all Contracts are every where made, and Ac-"counts kept in silver Coin, I am sure they are so in England and the neighbouring Countries. Silver therefore, and Silver alone, is the Measure of Commerce. Two Metals, as Gold and Silver, cannot be both the Measure of Commerce in any Country; because the Measure of Commerce must be perpetually the fame, invariable and keeping the same Proportion in Value and in all its Parts."

Mr. Locke's Discourse is certainly worthy the Attention of all who would have an adequate Idea of the Nature and Value of Coins, Interest and Exchange. But before he wrote, that is to say, in the Year 1623, there was a Tract of the same Purport done by Mr. Rice Vaughan, but not published until the Year 1655; and it may seem strange, that this sine Piece on the Subject has hitherto lain in Oblivion, and not even quoted by Mr. Locke.

DAVENANT makes Gold and Silver promiscuously the Measure of Commerce; and I should think, that as in *England* Guineas are by Law to be accepted in Payment at 21 Shillings, as a Crown for five Shillings, the Measure is not fixed to Silver.

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In Germany, some Payments are by Law established to be made in certain Sorts of silver Coin, such as Hamburgh Bank-money, in Rixdollars of 14 Loot 4 Grains sine in a Mark, and of 2 Loot each; and there it may be said, that silver Coin is alone the Measure of Trade.

In Portugal, Gold is the chief Coin of the Country, and confequently there the Measure of Trade.

SECT. LXXIII.

A Pound of Gold is, and will every where remain equal to a Pound of Gold; but you give in some Countries more Pounds of Silver for a Pound of Gold than in others; and likewise in England we at Times do the same; and so we may as well maintain the Pound of Gold to be the Value fixed, or unchangeable, and the Silver to be variable in its Value: But as a greater Value in Gold than in Silver is found all over Europe, and is a Metal more commodious for Dispersion, and has all the Requisites of Silver, with some Advantages, I should think it rather preserable to serve as the common Measure of Trade.

- 1 Pound of Silver is 3: 2:0, or 744 Pence English,
- 1 Pound of Gold is 46: 14: 6, or 11214 Ditto.
 11214 a 744 is as 15 54 standard Silver to 1 Pound standard Gold; but as
 - 1 Pound Gold of 24 Carats contains 22 Carats fine,
 - 1 Pound Silver of 12 Ounces contains 11 2 Ounces fine.
 - So 100 Pound Silver a 11 2 contain 92 2 Pounds fine, 100 Pounds Gold a 22 91 3

And as
$$15\frac{54}{744}$$
 is = to 1

or 11214 = 744

a $92\frac{1}{2}$ a $91\frac{2}{3}$

68200)1037295 = 68200

In England we give 15 1 200 Pound fine Silver for 1 Pound fine Gold.

In the Roman Empire is coined out of

- 1 Mark Silver 8 Rixdollars of 14 Loot 4 fine, each going for 2 Guilders, is 16 Grains,
- 1 Mark Gold 67 Ducats of 23 2 Carat fine, each going for 4 Guilders, is 268 Grains;

Ergo 16 3 Marks Standard Coin in Silver, go for 1 Mark Standard Coin in Gold.

And as 100 Marks Silver a $14\frac{2}{9}$ contain $88\frac{128}{144}$ fine, 100 Marks Gold a $23\frac{2}{7}$ — $08\frac{128}{144}$ and $16\frac{3}{4}$ is = to 1

or 67 = $4\frac{1}{4}$ $88\frac{128}{144}$ = $98\frac{18}{144}$ $98\frac{18}{144}$ $98\frac{18}{144}$ $98\frac{18}{144}$ $98\frac{18}{144}$ $98\frac{18}{144}$ $98\frac{18}{144}$

Thus in the Empire the Mark 15 5600 fine Silver, 1 Mark fine Gold.

In France, Mr. Dutot, in his Reflexions sur les Finances, Tom. I. Page 207 says, 14 ½ Silver is equal to a Pound of Gold. The Author of the Examen says, That as by the Edict of the 5th of March 1721, the Mark Silver was to pass for 80 Livres, and the Mark Gold for 1200, both to be of 11 Derniers sine; the Proportion then was 15 to 1. But by the Edict of 1726, the Mark Silver is established at 51, 3, 3, and the Mark Gold at 740, 9, 1, both of 11 Derniers sine, it makes the Proportion to be near 14½ to 1, and I find it to be 14½ 500 to 1.

In Spain one Peso in Silver of 10 5 Reals weighs equal to one Doubloon of 160 Reals, or 20 Pesos of 8 in Gold.

And as by the Assays made by the Mint-masters in Germany, we and their Peso's to be of 14 1, and their Dubloons of 21 ; Fine-ness Gold. Vide States Chancellery, Part 71.

So is in Gold N. 3=21 $\frac{2}{1}$ fine in 24 makes in 100=90 $\frac{20}{17}$, pag. 543. in Silver N. 14—14 $\frac{2}{18}$ fine in 16 — 100=90 $\frac{20}{17}$, pag. 549. And as a Spanish Dollar of 10 $\frac{2}{1}$ Rials Silver equals in Weight to a Doubloon in Gold of — 160 Rials,

fo 85 = 12801 Silver to $15\frac{5}{53}$ Gold.

In Holland 1 Mark Cologne 7 1 Ducatoons in Silver passes in Bank for 3 F. 21 3 Gilders,

1 Mark Cologne 67 Ducats in Gold pass in Bank 5 F. 335.

fo $15\frac{35}{87}$ Silver = to 1 Gold.

or 1340 = 87

and 100 Marks Silver a 14 $\frac{8}{9}$ fine 93 $\frac{1}{18}$ and 100 Marks Gold a 23 $\frac{2}{1}$ fine - 98 $\frac{1}{18}$ 124694 $\frac{8}{18}$ - 8579

2244500 - 154425

Silver 14 $\frac{6255}{153425}$ to 1 Gold.

In Germany lately have been published two Tracts on Coin, the one by Mr. GRAUMAN, who endeavours to prove that in the Empire generally too much Silver is given for Gold; and that it having admitted the Standard of Leipsick hath not been well adjudged; upon which Notions it seems first in Brunswick, and now in Prussia, they are coining Silver and Gold, whereby they pretend to observe a better Proportion. The other Author, whose Name we know not, stands up for the Honour of the Princes, who approved the Standard of Leipsic, both furnishing the Publick with fine Arguments.

guments on this Subject. Mr. GRAUMAN, in his Calculations of the Proportions between the Gold and Silver of England and Germany exactly agrees with our Calculations above, before printed in the German Language; and it seems had acquired the best Informations: But now, upon looking faither into the Question, we find the following Method of calculating to be yet shorter.

In England 1 Pound fine Gold 1 1 Pound Standard Gold, a 11214 Pence — 12233 1 Pence;

Pound fine Silver is 1 18 Pound Standard Silver, a 744 Pence — 804 36.

Ergo I Pound fine Gold is 15 2058 Pounds fine Silver.

In the Empire 1 Mark fine Gold is 1 7 Mark Standard Gold, a 268 Florins - 271 77.

1 Mark fine Silver is 1 3 Mark Standard Silver,

a 16 Florins - 18.

Ergo 1 Mark fine Gold is 15 1278 fine Silver.

In Holland 1 Mark fine Gold is 1 1 Mark Standard Gold, a 335 Gilders — 339 51

1 Mark fine Silver is 1 10 Mark Standard Silver,
a 21 3 Gilders - 23 100.

Ergo I Mark fine Gold is 14 237744 Mark fine Silver. (11)

SECT. LXXIV.

Now as by the above Calculations it is evident that France and Holland, give more Gold for Silver than their Neighbours. We find the Reason why Silver Coin of their Standard and Weight cannot be preserved with them; for a German Mark Gold of about 268 Florins Value will be purchased in Ducats, at a half Mark Silver, which is about 8 Florins, or 3 per Cent. cheaper; therefore filver Coin from Germany will go to fetch Ducats or Gold from Holland. However, as both answer the Purpose of all Purchases, and

⁽¹¹⁾ In Amsterdam 200 Ducatoons must weigh 211 \(\frac{5}{8}\) Ounces Troy, and they are of 11 \(\frac{7}{4}\) Penny in Finences, it makes 14 \(\frac{65249}{56335}\) Silver to 1 Gold.

so long as they circulate on a near Proportion, it seems not material to make any public Alteration.

But the Question may further be, in which we are most exposed, or if it be better to keep our Treasure most generally in Gold or Silver? To answer which, Enquiry should be made, whether from the Mines is raised most Gord or Silver in Value? And which is most made Use of not only in Coinage, but for various other Purposes? Upon which, by the general Appearance, it may be conjectured which is most plentiful; and thence how far it may be necessary or proper to lower the Gold in Coin.

In Holland formerly there was but 12 ½ fine Silver to 1 Gold, as appears by their Placart 1622, when it was evidently better to treafure up Silver than Gold; yet confidering that both Gold and Silver are subject to rise and fall; and as we find by a Representation made by Sir RALPH MADDISON to the Parliament in 1665, England then giving but 13, and France 15 for 1, was a Cause of Complaint; and as in general both these Species lessen in Value, as they increase in Quantity more than other Commodities, and sometimes for the greater Facility, with which Gold is conveyed in Time of War, &c. is preserably esteemed. It seems better for a Country that is blessed with Store to treasure up both, and in order to their being of equal Import, to keep them up to an equal Standard with those Countries where we find there is the greatest Trade in either Bullion.

SECT. LXXV.

To regulate the Balance of Trade, and to discover what is the true Par of Exchange between inter-commercial Nations, it seems rather that our Conclusions are to be form'd from the Prices of Bullion in them respectively, than from the intrinsic Value of the Coin. To what Purpose is it that I know that with English Crowns I can make an Exchange at Amsterdam worth 37 Shillings, if they are not to be got of full Weight in any Quantity, and who will bring English Crowns from France that produce in England only 29 ½ Pence for 3 Livres, when Guineas of 24 Livres

pro-

produce 21 Shillings, that is 31 † Pence for 3 Livres; and I hope now our Bank-Directors know that standard Silver sells in Bullion at 5, 5 †, they will not suffer their Tellers to have the picking out of weighty silver Coin.

SECT. LXXVI.

The Knowledge of the intrinsic Value of the Coins of our Neighbours is very necessary; but if we only keep amongst ourselves a certain Standard whereby to calculate, we may by the increasing the Price of our Goods proportionably take in Payment whatever Coin of a lower Standard Foreigners will bring us; because we shall find that by exchanging our Goods, what will be sufficiently avoided by only publishing how much they are of less Value, and why in Taxes they are not to be accepted for more; and as to the rest, let Merchants judge for themselves, and Trade be lest unconfined. Fide Section XXIX.

S E C T, LXXVII.

The Princes in Germany who have not Mines, cannot make any Coins of the Imperial Standard, but only when they have Bullion transmitted to them, so as to coin 18 Florins out of a Mark; any other Sort of Coins, with more Alloy, no body is obliged to accept without their Dominions; so that whatever they charge too much upon them will fall on their own Subjects, and first upon them who are in that Prince's Service, as it will be first paid them for Wages.

Cap. 14.

Upon which Subject I am pleased with the Expression of an English Author who wrote in 1667, a Book entitled, a Treatise of Taxes and Contributions: "Sometimes it hath happened, that States,

- " I know not by what raw Advice, have raised or embased their
- " Money, which in Truth amounts to no more than a Tax upon
- " fuch People unto whom the State is indebted, or a Defalcation of
- " what is due."

And

And in concluding the Chapter, "That raising, or debasing of "Money, is a pitiful and unequal Way of taxing the People, and is a Sign that the State sinketh, and is accompanied with the Dis-

" honour of impressing a Prince's Effigies to justify an adulterated

" Commodity, and the Breach of public Faith, as is the calling a

" Thing what it is not."

There is the Summary of a remarkable Speech made in Council Cottoni Possible 2d of September, 2 Car. I. by Sir Robert Cotton on this buma, Fol. Subject; "Estates stand Magis fama quam vi, as Tacitus saith of Rome. 285."
"Wealth is one essential Mark of a Kingdom's Greatness, and most

" apparent in the Measure and Purity of their Coins; while King-" doms hold up their Glory and Greatness, they maintain their

" Standard; but when Necessity induces them to change the

" Standard, then, by Degrees the Majesty of Empires decay; and

" the Steps to fuch Decay are feen by the gradual Alteration of the

" Coin, as the Corruption of Money is a fure Symptom of a Con-

" fumption in the State."

In an Edict published by the King of Prussia, 1750, the Agreement approved and entered into by the whole Roman EMPIRE 1737, not to deviate in Coinage from the Standard of Leipsic, and for which many good Reasons are given in the Book called the European State CHANCERY, is by that Edict said to be, "one of "the Causes from whence a great Evil arose, and why it was ne"cessary, to new coin a Quantity of Gold and Silver, in which a
"juster and better Proportion should be observed."

It cannot well be denied, that generally in Coin, more Silver is given for Gold than in Bullion; consequently that it would in general be better to have it so; for there is now the same Reason in England for reducing a Guinea from 21 S. to 20 ½, as there was in 1717, on Sir Is AAC NEWTON'S Representation for reducing it from 21½ to 21 S. whose Representation and Assays of foreign gold and silver Coin, as being sounded on the Inquisition of so great a Man, are hereunto annexed.

But as at present far the greater Part in Value of the Cash of the Kingdom and Treasure of the Bank is in Guineas, the lowering of them might occasion many Inconveniencies, nor does it appear that it would any Way increase the Stock of Coin in the Kingdom; because of either Sort, we shall never keep more than nearly what we want, and always preser the being over-stocked with Goods, wherefrom more or less Prosit is expected, than with Cash that gains nothing to the Nation.

If we consider England as indebted to Foreigners, it would not be well calculated, that for 1000 Pounds we received at 952 \frac{1}{27} Guineas at 21 S. to repay it with 975 \frac{25}{47} at 20 \frac{1}{2} S. Nor indeed can any Alteration be made in Coin which is not the Cause of some Injustice, and by comparing the Exchange upon Breslau, what it was before the new Coinage, and what it is now, it will readily evince where the first Burthen of his Majesty of Prussa's new Coin fell.

On the Point of finishing this Part, I met with a Book lately published, replete with judicious Maxims of Trade, written by Don Geronimo de Ustaria, a Member of his Catholick Majesty's Privy Council; wherein he explains himself with great Tenderness on this Subject: He says, "That the Standard, Weight, and other Circumstances of Coin, are so intimately connected with Commerce, that no Person will be surprized, if this important Consideration obtain a Place in this Work, though I shall bearly repeat what others have written upon the Subject; nor shall I ever presume on my own Strength to tread this dangerous Path, or offer my Opinion in respect to the Rules that ought to be observed in the proportioning and coining of Money, which is a very arduous and difficult Undertaking, even to those who are the best skilled in the Theory and Practice of it."

I shall give you what SAAVEDRA, that Prince of Christian Politicians has observed and recommended in his 69th Essay Ferro & Auro, where after quoting the bad Consequences which attended several of the Spanish Monarchs intermedling with the Coin, he goes on

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to say, "I dare not undertake a Reform of the Coinage, it is the Eye of "the Republic, and shrinks at the gentlest Touch of the Hand, and "our wisest Way is to leave it as it is, and not to depart from an"cient Usage; no Penetration or Foresight can be aware of the
"Injuries that result from Innovations in this Case, till Experience
"point them out; for as it is the Rule and Measure of all Trans"actions of Business, when this is disconcerted every body is a Sus"ferer, Trade is disordered, and the Commonwealth, as it were,
"out of itself.

" On this Account, it was a wife Step taken in the Kingdom of " Arragon, after the Renunciation of PETER XI. to form an Oath, " and oblige all their future Princes to take it before their Coro-" nation, that they would not make any Alteration in their Coin. " This is the Obligation of a Prince, as Pope INNOCENT III. wrote " to the same King PETER, when that Kingdom was in Rebel-" lion about it. The Reason is, the Prince is subject to the Law " of Nations, and ought, as being Security for the public Faith, to " take Care that there be not any Alteration in the current Coin, " which may be made in either the Matter, Form, or Quality; nor " can any Kingdom be under good Oeconomy where the Coinage " is not pure and just: Whereupon I shall make two Remarks; " First, that our Coinage will then be regular, and not liable to any " Disadvantage, when there shall not be any higher Advance upon " the intrinsic Value than the Charges of coining, and when the " Quantity of Alloy in our Silver and Gold is the same as in other " Nations. Secondly, that the Coin be likewise of the same Weight " and Value, giving Leave also for foreign Money to be current, " fince it doth not really affect the Authority of a Prince, to let " Money stamped with foreign Arms be current in his Kingdom, " as that only shews the Weight and Value of the Metal."

Thus this great Man, in the Words of SAAVEDRA, strikes at the Root of the Evil committed by his cotemporary Ministers in Spain; and gives in short the true Doctrine which ought to be followed in respect of Coinage.

SECT. LXXVIII.

In Countries where they raise Bullion from the Mines, Coinage is common; and it seems to be an Encouragement for the Labourers therein, to pay their Wages in fine new standard Coin: But in such Times as now, in the Year 1750, when Spanish Pieces of Eight are here at 5, 5%, which is 5 a 6 per Cent. above our Standard, they being but of 10 Ounces 17% Penny-weight fine, I think the Princes of Germany, who have Mines, would rather sell their Silver uncoined than turn it into Money on the Footing of the Imperial Standard; or if particular Circumstances require them to coin, they should keep it in their own Possession, or make a Profit by sending it Abroad on their own Accounts.

In England, the Master of the Mint recieves 1, 4 ½ for coining a Pound Troy of Silver, out of which he pays Eight-pence to his Workmen; so that whatever silver Coin is thrown into the melting Pot again, is a Loss to the Government of 2 ½7 per Cent.

For Gold he receives 6 for a Pound Troy, which is 1100, or near for Cent. Charges to the Government. Vide the Abstract annexed of the Indenture with the Mint-Master.

SECT. LXXIX.

Nations have at all Times thought themselves in Want of Money, and the same Opinion will remain though the Mines should produce double what they now do. But this is not so properly Want of Money as an unequal Distribution of it, and the continual lessening of its Value.

A French Author, who wrote in the Reign of Louis XIII. a Book entitled the Denier Royal, attempts to prove, that this King, with a Revenue of 3,600,000 Pounds, was not richer than his Predecessor San Louis, Cotemporary with Henry III. of England, who had only 30,000 Livres.

DUTOT, before quoted, pursues the like Thought, comparing the Revenues of Louis XV. with those of his Predecessors, and

concludes him not so rich as any of them; calculating from the Increase in the Quantity of Gold and Silver, and Augmentation of the Coin; the Consideration whereof I refer to Sect. XIX. and XXV. That Wealth consists not merely in Gold and Silver, but in the Abundance of Stores for Use and Service.

Monsieur VAUBAN, in his Project of Dixme Royale, very justly remarks, "That the true Riches of a State consists not in the "Quantity of Gold and Silver, but in the Abundance of Necessaries "to support the Life of Man."

DAVENANT, in Answer to a Merchant, who wrote against him, observes, "That it is very difficult to define what may be truly called " the Riches of a People; it has a Signification far more exten-" five: We understand that to be Wealth which maintains the " Prince and the main Body of the People in Plenty, Ease, and " Safety; we esteem that to be Treasure which, for the Use of " Men, has been converted from Gold and Silver into Buildings and " Improvements; at all Times convertible again into these Metals, " as the Fruits of the Earth, Manufactures, foreign Commodities, " Shipping, &c. We hold to be Riches what makes a People " fafe at Home and confiderable Abroad, as do Fleets and naval " Stores. We shall go yet further, and fay, That maritime Know-" ledge, Improvements in all Kinds of Arts and Advantage in mili-" tary Stock; as also Wisdom, Power, and Alliances are to be put " into the Scale. Industry and Skill to improve the Advantages of " Soil and Situation, are more truly Riches than the Possession of " gold and filver Mines, which Spain fufficiently instances, whose " Subjects are poor, and Governors impotent, with all the Wealth. " of the West-Indies. There may as well be too much as too little " of this Kind of Treasure, if it be not turned to proper Uses, " where all flows so fast in as to choak Industry; or where it is " fuffered to stagnate, it does more Hurt than good. No Sum that can be dug out of the Mines bears any Proportion to what may be raifed by the whole Labour of a trading industrious " People.

England is certainly right to keep only to one Sort of Standard in all its filver Coin, and for smaller Divisions to make use of Copper, so that every Body knows what he receives; and by making use of Bank Notes, less exposed to Clippings and Filings than the People in Germany, which will not cease, though ever so much Alloy be

put into the Coin. (12)

If we proceed, as of late Years in transporting a like Quantity of Silver to the East-Indies, and in the same Manner to increase its Use for such a Variety of Purposes, it is possible that it may be again at the Par of 12 a 1; and so all silver Coin that now exceeds that Value, be cast into the melting Pot again; but as the same Thing will happen to all, so as is said before, in respect to hoarding up Treasure, it may be proper to keep a Stock of both, but principally of Silver.

SECT. LXXX.

In general it appears, that we have no Reason to envy our Neighbours the Possession of Mines, or their having most Money; nor does it materially concern us what Alteration they make in their Coins, as while it is held good Policy to execute Law and Justice, promote Industry, and not over-tax Skill and Labour, they will be chearfully studied and pursued, and the Stock of Gold and Silver increase.

Tis not the having, or using, but the Abuse of Wealth, that can be the Cause of its doing any Mischief amongst us, as DAVENANT, in the second Part of his pre-quoted Remarks; "Kingdoms grown "rich by Traffic will unavoidably enter into a plentiful Way of "living, but so long as this is universal, when it is not splendid "Beggary, when the inferior Rank of Men have their Share, and

Page 75.

⁽¹²⁾ It may be necessary just to hint here at the Practice of many of those who keep Cash for others, who receive foreign Gold, and pay it out again by Tale, so far as the lighter Pieces extend, but reserve the full-weighty for Purposes they well understand, which may be further taken Notice of in the proper Place.

"Tillage, Labour, and Manufactures in the mean time go on well?" when Buildings and Farm Houses are still kept in good Repair; when People, less frugal than they should be, are notwithstand- ing able to pay their Taxes, and provide themselves with all Things necessary, in such a Nation some Ease and Luxury is ra- ther the Sign and Effects of great present Wealth, than the Cause and Fore-runner of suture Poverty.

"We in England are not tied up to the fame strict Rules of Parsimony as our Rivals in Trade the Dutch; we are not so easily inwaded, we have a large sertile Country, and a good native Product, so that the whole Public may grow rich, though the People consumer summer foreign Commodities, and are more luxurious, and it is not impossible but that our Industry would be less active, if it was not awakened and invited by some irregular Appetites, which are more easily found fault with than cured. A rich Soil is apt to make People idle, and therefore our Invention not so much exercised, if our Inclinations were not so strongly bent on exotic Vanities, the evil Consequences whereof are less to be apprehended when it appears by many Circumstances that the Nation increases in Wealth.

"It is, without doubt, prudent to impede the Excess of Luxury, but if it is grown too powerful or extensive for Remedy, the next "Wisdom is to lay such a Foundation of Wealth, that the vain and expensive Temper of the People may not be destructive of the Public."

The same Author, in his Discourse upon Grants and Resumptions, concludes his Annotations upon the Revenues of the Romans thus:

"Now to recapitulate the Reasons of this great Peoples Ruin, their Luxury extinguished all Sense of Honour, and in its stead introduced irregular Ambition; Ambition brought on civil Wars, civil Wars made single Persons too considerable to remain in private Condition; so that the Foundation of their Destruction was laid in the same Century wherein Casar invaded their Liberties. However, they might have continued a powerful and flourishing

" Nation

Nation for many Ages, if the fucceeding Princes had imitated either Cæsar or Augustus: Many of them assumed unlimited Authority, and bad Emperors destroyed what their Predecessors had constructed; they seized on the Treasure laid by for urgent Occessions; they accounted the public Revenues as their own peculiar Property, and squandered away amongst their Minions, what should have supported the Dignity of the State: And when Prosident fusion had reduced them to Necessity, they levied exorbitant Taxes, and pillaged the remote Provinces: When those Provinces were harassed and exhausted, they became weak and unable to results Invasions. In this naked and defenceless State the Barbatians seized on them, and became strong and powerful, carried their Arms into Italy, and conquered Rome itself, the Head and Seat of Empire."

SECT. LXXXI.

It is justly observed by Mr. Munn, in his England's Treasure, "That all Kind of Pomp is not to be avoided; for if we should become so frugal as to use but sew or no foreign Wares, how shall we then vent our own Commodities? What will become of our Ships, Mariners, Artificers, &c. Can we reasonably hope that other Countries will trade for our Wares, without having or bartering theirs? This would prove a vain Expectation. It is more safe to run the middle Course, by spending moderately, which will purchase Treasure plentifully again. The Pomp of Building, Apparel and the like, in the Nobility, Gentry, and other able Persons, cannot impoverish the Kingdom, if it be done with curious and costly Works upon our own Materials, and by our own People; it will maintain the Poor with the Purse of the

" Rich."

And BLUET, on The Fable of the Bees, remarks equally well, that many Things are called Vices, which in Fact are not fo.

SECT. LXXXII.

Of the many English Authors on the Subject of the Balance of Trade, I do not recollect to have met with any one who has observ'd, that a great Part of the Gold and Silver remitted to England from Spain and Portugal, is the Return of Goods from Germany, where against Bills of Exchange payable at London go to Germany; and the Germans cannot take all the Returns in Goods from England, so Part of the Bullion must be transmitted to them, without any Relation to the Balance of Trade between England and Germany, and whereout the English can only have the Profit of Freight, &c.

The next Remittance is to Holland; and what is not requisite to remain there, passes on to the Proprietors in Germany. Hence it appears that the true Balance of Trade is not to be adjusted by the Quantity of Bullion imported; nor can it be discovered by the Imports from or Exports to Holland, what is properly the Balance between the two Nations, as commonly in both Cases a Part of it is on the Germans Account.

DAVENANT, in his Reports to the Board of Trade 1711, representing our Trade with Holland, assigns a good Reason for remitting Bullion thither, which is the Sums they have in our Funds, which will be a constant Drain from and Weight against us in the Balance of Trade. Vide Sect. XXXI.

Sir George Downing, who wrote about the Year 1726, affigns another good Reason, viz. that for the naval Stores purchased in Denmark and Sweden, the Balance passes through the Hands of the Dutch; but neither of them seem to have observed that some of the Money must go, because it never did belong to England.

Sir Josiah Child, in his Annotations on the Difficulty of finding out the Balance of Trade, concludes, "That whereas we "find an Increase of Shipping and Trade, it is a certain Sign of the "general Balance being in our Favour; and of such Increase every body

"body is Witness." And so now a-days, every Body who will examine how and with what Sort of Goods Ships going and coming from Holland, Hamburgh, and Bremen are loaded, may be convinced that our Exports are of much superior Value than our Imports: And so, upon the Whole, the Balance is in our Favour.

Hence results these farther Considerations on the general Balance. England sends annually to the East-Indies 5 or 600,000 Pounds Spanish Silver, which is certainly more than what the Balance with Spain produces; and as likewise much goes into the East Country from us on Account of naval Stores, &c. and perhaps more is worked up at Home various Ways. This naturally leads us to enquire how it happens that we have so much of this Silver to spare, and brings us into the Circle of Trade.

There is, primarily, our own proper Balance immediately with Spain.

Secondly, our Balance of the West-India Trade principally by the Canal of Jamaica.

Thirdly, what we referve out of the German Remittances, by Sale of native Products, and East-India Goods.

And, lastly, what we may referve by remitting Gold instead of Silver, especially when Silver rises, which Gold has often been in part the Return for Silver exported by the Company, as well as from our Balance with Portugal.

As this pretty well accounts for the Manner of our coming by so much Silver; so if we consider that it is by the Course of that Trade brought partly in Value round to our Hands again, or the Means why we have so much to spare; and as the Company is supported besides to make an annual Export of 600,000 Pounds in Goods; and as it is to be considered, that if they did not carry on this

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this Bullion Trade, it would be entirely in the Hands of the French and Dutch; so can there not be any just Cause of Complaint, on Account of the large Exportation of Silver.

The Quantity of Silver returned to Spain from the West-Indies yearly, is computed at — — 12,000,000 Ds. which are nearly in Sterling Money 2,700,000 Pounds.

Supposed exported to the East-Indies,

By England — — £. 500,000

France — 500,000

Holland — 300,000

Denmark and Sweden 200,000

1,500,000 Remains L. 1,200,000

Thus the East-Indies seems to swallow up above half the Silver of America, passing Europe-wise, besides what goes thither by the Channel of the Manilas; what becomes of the other half in the European Course, remains to be accounted for, which can only be done by observing, that it serves the Waste of Lace, Coinage, and working up into various Kind of Utensils, principally for all Europe. That the English, French and Dutch, remit great Quantities Eastward; that there is much used, and annually worked up and wasted in Spain, as well as in other Countries; and in England perhaps more than in France and Spain together. And although we have in England a great Circulation of Bank Notes, I am apprehensive that there is much more Silver now, than before the Bank was set up, taking wrought Plate and Coin together.

It is an Advantage, that as Silver increases, more Use is made of it in wrought Plate; for, was it all to be coined, such Coin in Pro-

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portion to its Increase, always loses in Value, in Respect to other Commodities; and as Gold likewise becomes more plentiful, Europe is under no Necessity of making any other Use of silver Coin than for the Convenience of small Divisions, which seems to be of late generally practised.

The Notion which some Persons entertain, that if the Bank of England would lend their Notes as cheap upon Silver as the Bank of Amsterdam does their Credit, most of the Silver of Europe would center here, to me appears a Mistake, and the contrary very clear; For as the French, who are Proprietors of the greatest Part of the Treasure coming from the Spanish West-Indies, have no Employment for much Money in England, if upon a fallacious Appearance, any Quantity of their Silver from Spain were shipped for London, the Exchanges between Cadiz, Paris, and London, foon would turn fo against the Shipper of Silver, that it could be of no Service, if the Bank would lend their Notes for Nothing; and in such Case the Silver must pass from England to France again at double Charges; as they have from many Quarters of Europe the largest Balance of Trade in their Favour, it must naturally draw the largest Quantity of Gold and Silver thither; and for Want of publick Credit, they always must keep a greater circulating Cash than is necessary in England: But in Proportion of the Number of People, visibly we have larger Properties amongst our private Persons, and can better depend upon the same.

AFURTHER

ILLUSTRATION

OF THE

Business of Exchanges,

FROM THE

TABLE, REPRESENTATION, &c.

OF

SIR ISAAC NEWTON.

With Suitable REMARKS and ANNOTATIONS.

AFURTHER

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TABLE, REPRESENTATION SC.

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SIR ISAAC NEWTON.

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SIR ISAAC NEWTON'S Assays, Weights and Values of most foreign Silver and Gold Coins, actually made at the Mint, by Order of the Privy Council, before the Year 1717; with Notes and Explanations, shewing the Methods of keeping Accounts in those Cities on which Negotiations in Bills are usually made; and a Calculation of the real or intrinsic Par of Exchange, as it stood in Anno 1719, when first published, and so it was re-published in London 1740.

Foreign SILVER COINS.	Aff	Tay.	W	eight.	Sta	nd.	Wt.	Value.	
	A de	dw.	dw.	gr.	dw.	gr.	mi.	d.	
HE Piaster of Spain, or Seville Piece of 8 }	100723					1026		54	* This Piastre
The new Sewille Piece of Eight -	W.	11	14		113	21	15	43.11	proved Sect.
The Mexico Piece of Fight	W.	1	17	105	17	8	14	53 .83	LXXI. to have been
The Pillar Piece of Eight	Sta	nd.	17	9	17	9	-	53.87	mare been
The Peru Piece of Eight, coarser but of uncertain Allay	100			1	1			1	over-weighty.
The old Ecu of France, or Piece of 60 Sols Tournois -	W.	1	17	12	17	10	2	54	
The new Ecu, or Piece of 5 Livres, or 100 Sols —— N. B. The Ecu of France should be 2 dwt worse								60.39	
by Law	270								
The Crusado of Portugal, or Ducat worth 400 Reas now marked and raised to 480 Reas —	W.	2	11	4	11	1	13	34.31	
The Patacks, or Patagons of Portugal, worth 500 Reas, now marked and raised to 600 —					1				
The Ducatoon of Flanders, or Piece of 60 Sols or Patars	B.	43	20	22	21	8	2	66.15	
The Patagon of Flanders, or Cross Dollar, or Piece of }		10.00		1				52.91	
The Ducatoon of Holland, or Piece of 63 Stivers -	B.	2	120	21	21	2	15	65.59	
The Patagon Leg Dollar, or Rix Dollar of Holland, or ?	/ & /	1.0						1	
Piece of 50 Stivers —	W.	14	18		110	20	17	52.28	
The three Guilder Piece of Holland, or Piece of 60 }	W.	2	20	8	20	3	12	62.46	
The Guilder Florin, or Piece of 20 Stivers -	W.	2	16	181	6	17	1	20.08	
The ten Shilling Piece of Zeland, or Piece of 60 Stivers				6				62.21	
The Lion Dollar of Holland, or 2 of the Ducatoon -				14				43.07	
The Ducatoon of Cologne	B.	3	20	18	21			65.02	
The Rix Dollar, or Patagon of Cologne -	W.							52.53	
The Rix Dollar, or Patagon of the Bishop of Liege -									
The Rix Dollar of Ments -	W.	6	18	8	17	19	18	55 .27	
				8	17			54.53	
The Rix Dollar of the Elector Palatine of the Rhine ?		,	18		1			1,,,,	
and Bavaria before 1620.	1	,		,			1		
The Rix Dollar of Nuremberg -	W.	6	118	10	117	22	1	155 -55	

	Foreign SILVER COINS.	Affay.	We	ight.	Sta	nd.	Wt.	Value,
	An and the second of the secon	dw.	dw.	gr.	dw.	gr.	mi.	d.
# ·	The old Rix Dollar of Lunemberg -	W. 10	18	11	17	15	2	54.65
60	The old Rix Dollar of Hanover -	W. 8			17	20	2	55.03
	The double Gulden of the Elector of Hanover -	W. 7	18	18	18			56.29
	The Gulden of the Elector of Hanover, or Piece of 2	B. 171			9			28.14
	The half Gulden of the Elector of Hanover, or Piece of 1	B. 174		5			2000	14.07
	The Gulden of the Duke of Zell, or Piece of 16 Gute 1	SECURE LANGE			1000	2000		RESERVE WAY
	Grothen — — — — —	W. 43	11	2	8	22	10	27.07
4 15 15 15	The Gulden of the Bishop of Hildesbeim, or Piece of ?	图点证明	130		1		20,000	
Marian	24 Manen Grofts, now raised to 26	W. 401	11	22	9	17	17	30.21
Maryen	The Rix Dolllar of Magdeburgh -	W. 10	1.8		117	16		54 -27
Großhen.	The Gulden or Guilder of Magdeburgh -	W. 44			19	6		28.67
						100		
	The old Rix Dollar of the Elector of Brandenburgh —	W. 9		13	1.4	19		5.5 - 17
	The old Gulden of Brandenburgh, now raised from	W. 43	12	4	19	19	9	30.41
Maryen	24 to 26 * Manen Groft —		and y	100	10		6	0-
Groshen.	The Gulden of Brandenburgh, or Piece of 3	W. 43	111	3	1 8	23		27 .81
The second second	The half Gulden of Brandenburgh, or Piece of 1/3 -		1 5	13	4	11		13.09
(1) 数字人是《数数	The Gulden of the Elector of Saxony, or Piece of 3 -		11	3	9	1		28.12
	The old Bank Dollar of Hamburgh -	W. 8		9	17	17		54.92
Bank Dollar,		W. 8		16	17	22		55 -54
Sect. LXXI.	The four Mark Piece of Denmark of coarfer Allay -			. 8		9		32.23
proved to	The four Mark Piece of Denmark of finer Allay -	W. 21	11	132	10	11	5	32 -45
ave been un-	The eight Mark Piece of Sweden -	Stand.	20		20			62
der-weighty.	The four Mark Piece of Sweden	W. 58	112	12	9	23	7	30.92
	The two Mark Piece of Sweden -	W.	1 6		1			
	The old Dollar of Dantzick	W. 10			117	12	4	54.27
	The old Rix Dollar of Thorn near Dantzick -	W. 12	18	8I				53.85
	The Rix Dollar of SIGISMUND III. and VLADIS- ?	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	120	WEST.			10.73	
	LAUS IV. Kings of Poland	W. 10	18	9	127	13	14	54.04
	The Rix Dollar of the late Emperor LEOPOLD -	W. 10	1.	9	112	12	4	54 .27
	The Rix Dollar of his Predecessor FERDINAND III	W. 10						54 -27
	The Rix Dollar of FERDINAMD, Archduke of Austria					8		53 .78
	The Rix Dollar of Bafil	W. 7			1.6		6	56.24
	The Rix Dollar of Zune							
	The old Ducat of Venice, with the Words Ducatus	W. 13	1,0	1	1.0	23	.3	52.65
		W			1			
*	Venetus upon it, a Piece of 6 old Livres, after-	W. 23	2 14	1 15	1,3		17	40.50
	wards raised, I think, to 6 Livres 4 Sols de Picoli	777					-0	
	The half Ducat	W. 23	1 2	7 7 2		12	18	20.25
	The new Ducat, with the No 124 upon it fignifying }	22.4	118	3 2				1
	124 Sols, or 6 Livres 4 Sols de Picoli		1				- 11	
	The half thereof	-	1	9 1				1
	The Crusado Croisat, or St. Mark of Venice, with the		1		1			1
	No 140 upon it, fignifying 140 Sols, or 7 Livres		20	0 6				1
	de Picoli — — — —]		1					
	The half Crusado of the same Form -	1	11	0 3				-
	The quarter Crusado of the same Form	1 3 J 3		5 1				
	Another Coin of Venice	- W. 46	1	7 10	P	3 10	8	42.0
	The Piece of two Jules	- B. 6		3 15			7	
,	The Ducat de Banco of Naples, or Piece of 5 Tarins, 7							
	or 10 Carlins, or 100 Grains —	W. 3	1	4 0	1	3 1	1/2 1	40.4
	The half Ducat —	- W. a		7 0	1	5 1	10	20.2
	The Tarin, or fifth Part of the Ducat -	W.	11 19	2 10		2 1	1 12	0 -
	The Carlin, or tenth Part of the Ducat	W.		9			. 6	
	and during or something that of the Dates	-10. 3	1	. 9	2 .		0	14.0

Foreign SILVER COINS.	Affay.	Weight.	Stand. Wt. Value.
	dw.	dw. gr.	dw. gr. mi.d.
The Escudi Ecu, or Crown of Rome, or Piece of 10 }		20 141	position to start of
The Testan of Rome, or Piece of 3 Julios -	W. 1	5 213	5 20 17 18.32
The Ducat of Florence and Legborn, or Piece of 7 ?	D .	Marine Committee Committee	William Constitution of Calling Constitution
Lires, or 10 ½ Julios —	D	20 3	20 20 6 64.62
The Julio of Rome —	是一层是华	2 5	South See But He I
of Tuscany — — — — — }	W. 1	17 12	17 10 2 54
The Piaster Ecu, or Crown of Cosmus III. present		17.00	
Duke of Tuscany, whose Monies are about 4 per Cent. lighter than those of his Father's; this Piece is 8½ Julios	W. 1	16 18	16 16 4 51 .69
The Croifat of Genoa, or Piece of 71 Lires -	B. 7	24 15	25 9 11 78.74
The Ecu d'Argent of Genoa, or Piece of 7 Lires 12 Sols		1.,	25 9 1. 10./4
The Piafter Ecu, or Crown of Milan	IN ACTUAL	17 21	Control Addition
The Philip of Milan, or Piece of 7 Livres -		20 20	
The Livre, or 20 Sols Piece of Savoy -	200	3 22	The Street Billion
The 10 Sols Piece of Savoy		1 23	Contract to the second
A Roupee — — — — — — — —	B. 161		7 23 4 24.07
A Gout Gulden, or Florin d'Or, a Dutch Coin of 28 Stiv.	W. 75	12 19	8 11 5 26.26
Another Gout Gulden — — — — —	W. 48	11 00	8 14 18 26 .72
Another — — — — —	W. 48	112	9 9 15 29.15

N.B. All the Rixdollars of the Empire, if exact, ought to weigh in London 18 Pennyweight 18, and to be 8 1/3 Penny-weight worse than the English Standard.

GOLD COINS Unworn.	car	. gr	ldw.	gr.	dw.	gr.	mi.	s.	ď.
The half and quarter in Proportion ————————————————————————————————————	W.	0 0	4	8	14	7	8	16	9.3
The half and quarter in Proportion — —	W.	0 0	2	4	z	3	14	8	5
The new Louis d'Or	W.	11	1 5	52	5	2	18	20	0.6
The half and quarter in Proportion	W.	0 1	2	147	2	12	10	10	0.3
The old Spanish double Doublon -	W.	0 0	17	.8	117	- 5	12	67	1.4
The old Spanish double Doublon The old Spanish double Pistole	W.	0 0	8	16	8	14	16	22	6.7
The old Spanish Pistole	W.	0 0	1	8	1	7	8	16	9.3
The new Seville double Piftole	W.	,	18	161	٦			1.	9.3
The new Seville Piffole			1.4	81	١.				
The new Seville Pistole The half and quarter in Proportion			1 7	-0	1				
The Doppia Moeda, or double Moeda of Portugal new					١.				
coined — — — — —	W.	0	6	22	6	21	12	26	10.4
The Doppia Moeda as they come into England -	W.	0 0	6	213	6	21	7	26	9.9
Prot 3.6 1 C D . 1	ELEP .	1							
The half Maeda	W.	0	li	174	li	17	8	6	8.5
The Moeda of Portugal The half Moeda The Hungary Ducat The Ducat of Holland, coined at Legem Imperii The Ducat of Campen in Holland The Ducat of the Bishop of Bamberg The double Ducat of the Duke of Hanover The Ducat of the Duke of Hanover	B. :	2	1 2	52	1 2	0	2	0	2.6
The Ducat of Holland, coined at Legem Interii -	B. 1	1 2	1 2	- I	2	0	2	0	2.2
The Ducat of Campen in Holland	B. 1	1 2	2	21	2	0	2	0	3.2
The Ducat of the Richard of Rambers -	B. 1	2	2	27	2	2	2	0	3.2
The double Ducat of the Duke of Hanguer	B	. 2	1	101	1	17	9	18	4.8
The Ducet of the Duke of Honorer	R		1 7	-1	2	8	18	0	2.7
The Durat of Brandenhungh	R		1 2	54 FI	-	0	- 2	9	3.2
The Ducat of Country	R	-	1 -	2 Z	2	2	3	2	3.2
The Ducat of the Duke of Hanover The Ducat of Brandenburgh The Ducat of Sweden The Ducat of Denmark	B	2	1 2	52	2	9	3	9	3.2

GOLD COINS Unworn,	Affi	ıy.	Weig	ht.	Stan	d.Wt.	V:	alue.
	car.	gr.	dw.	gr.	dw.	gr. mi.	8.	d.
The Ducat of Poland	B. 1	2	2				10	
The Ducat of Transilvania	B. 1	11	12	43		6	1 8	TT 6
The Sequen, Chequin, or Zacheen of Venice -	B. 1	21		7	2 1	7	1 0	
The old Italian Pificle -	W. o		A SCHOOL STOR	63		11		3.7
The double Piftole of Pope URBAN, 1634		Si.	å.	T	4		1.0	7.0
The half Piffele of Innocent II. 1685			1 -	42	是。唐节			
A double Piftole of Placentia			1 .	4	1889 IV	10.46	15.	
A double Piffole of Genoa, 1621 -	1555	1	0 .	6	N. 677	or send	100	75
A double Piftole of Milan —			10.	-1				
A Goods Pigible of Milan	24073		0 1	32			199	
A fingle Piftole of Milan -	2000		4	04				
A Piftole of Savoy, 1675	293.3	663	4	82				
Double Ducats of Castile, Genoa, Portugal, Florence, }	The Later	21/2	19.75/5	1.03	Mary Town	18	18	7.7
Single Ducats of the same Places	B. 1	21	2	SI	2 (9	10	3.8
Double Ducats of feveral Forms in Germany	B. 1	1	4 1	t	4 1	1	18	4
Single Ducats of the same Places -			2	CI.	2 8	3 4	0	2
Double Ducats of Genoa -	B. 1		4 1	1	4 18	6	18	6.5
Single Ducate of Counce Referen and Zwich -	B. 1	2	12	LI	2 (1 2	10	3.2
Piftole of Rome, Milan, Venice, Florence, Savoy, Ge-				32		1947-798	13	
money of marge Ironas Deliningon		04	4	6	4 5	17	16	6.7
A Barbary Ducat, with Arabic Letters on both Sides in 1					18.5			
square Tablets, without any Effigies or Escutcheon.	W. 2	12	2 1	04	2) 6	9	3.5

N. B. The Gold Coins having been valued when Guineas were at 21 s. 6 d. they are here reduced to the present Standard of 21 s.

* A Ducat of the Empire, if exact, ought to weigh 2 Penny-weight 5 70 Grains in London.

POR understanding the Use of this Table, it is to be observed,
That the English Pound Troy contains 12 Ounces; 1 Ounce,
20 Penny-weights; 1 Penny-weight, 24 Grains; and 1 Grain 20
Mites.

The present English Standard for Gold Coin is 22 Carats of fine Gold, and 2 Carats, or $\frac{1}{12}$ of Alloy.

The Silver Coin contains 11 Ounces 2 Penny-weight fine Silver, and 18 Penny-weight of Alloy in the Pound.

The first Column of the Table expresseth the Fineness of the assay'd Piece; the Letter B signifying better, and W worse than the English Standard.

The fecond Column, the absolute Weight of the Piece.

The third Column, its Standard Weight, or its Quantity of Standard Metal.

The fourth Column, its Value in English Money.

For Example, in the second Article of silver Coin, the new Seville Piece of Eight is 1 \(\frac{1}{2}\) Penny-weight in the Pound worse than the English Standard Weight, 13 Penny-weight 21 Grains and 15 Mites of Sterling Silver; and is in Value 43.11 Part of a Penny. (1)

In the Royal Mint, a Pound of Standard Gold is cut or divided into 44 ½ Parts, each a Guinea, at which Rate a Guinea will weigh 5 Penny-weight 9 Grains, .4382 Parts.

They were first coined in King CHARLES II. Reign, and went for 20 Shillings, and had their Name from the Gold whereof they were, being brought from that Part of Africa called Guinea, which the Elephant on them likewise denotes.

By the Par of Exchange is meant, the precise Equality between any Sum or Quantity of English Money, and the Money of a foreign Country, into which it is exchanged, Regard being had to the Fineness as well as to the Weight of each.

And because this Paper may be of Use to others besides Merchants, who desire to know the State of our foreign Trade, or our Situation as to Transactions in Money with other Countries; seeing the Exchange with them, unless where Subsidies are paid to Princes abroad, Armies or Fleets maintained, or the Dividends of Sale of our Stocks belonging to Foreigners may have Influence; I say, the Course of Exchange indicates the State of our Commerce, as truly as the Pulse does that of the buman Body. And for the Use of such Gentle-

^{(1) 11} Oz. 2 is 222 — worse $1\frac{1}{2}$ d. remains 220 $\frac{1}{2}$; and so if 222 makes 220 $\frac{1}{2}$, then 14 will make 13:21:15 at 62 d. for 20 is 43 $\frac{11}{100}$.

men, there is here subjoined an Account (in those Countries, with whom we exchange) of the several Denominations in which Accounts are kept; as likewise the real Course of Exchange from CASTAIGN'S Paper, as it stood March 28, 1729.

In Holland, or the Seven United Provinces, Accounts are kept in Guilders, Stivers, and Pence, or Gross. I Guilder being equal to 20 Stivers, and I Stiver to 16 Penings, or 2 Gross, 6 of their Guilders they reckon equal to I Pound, or 20 Schillings Flemish; on which last, the Exchange betwixt London and those Countries is always computed, and not on the Guilder, though they are, by the above Account of the several Denominations, easily reduced one into the other. The real Species are the Rix Dollar, valued at 50 Stivers, the Ducatoon = 63 Stivers. But though this be the current Value of that Piece, it is received at the Bank of Amsterdam only at 60 Stivers, which makes the Difference, called Agio, really of 5 per Cent. between Bank and current Money.

The Par of Exchange between English and Dutch Money is easily found, thus, as by Sir Isaac's Table, the Ducatoon of Holland is worth intrinsically 65.59 d. English, which is received at the Bank, as has been already said, at 60 Stivers, or 3 Guilders, and consequently is equal to 10 Schillings Flemish; therefore by the Rule of Three, as 65.59 d. English is to 10 s. Flemish, so is 240 d. English, to a 4th Number, which will be found to be 36.59 s. Flemish, and so much Bank Money at Amsterdam should be received for 1 Pound, or 240 Pence Sterling: This is the real Par, and whatever is received more or less than this, is Gain or Loss to England.

In this and the other Calculations of the Par, Regard is had only to the coined Silver of the several Countries, and not to the accidental Price or Value that Silver in Bullion may be, for this never is long the same.

FLANDERS, or the Ten Provinces, Accounts are kept either as in Holland, or in Pounds, Schillings, and Pence Flemish; I Pound Flemish = 20 Schillings, and I Schilling = 12 Pence; the Rix Dollar here only 48 Stivers. In reducing the Money of this Country into that of Holland, you are to observe, that I Pound Flemish, as it is called, is = 6 Guilders; and of Consequence, I Schilling Flemish = 6 Stivers, or 12 Gross; I Stiver being = 2 Gross.

ANTWERP having been formerly the chief City of Trade of the whole seventeen Provinces, we exchange even upon Holland to this Day in Flemish Money. In some Parts of Flanders they divide the Shilling into Patars instead of Pence, 6 whereof go to a Shilling.

In Hamburgh, Accounts are kept in Marks Lubsh; a Mark is = 16 Schillings; a Schilling is = 12 Pence or Deniers; a Rix Dollar is = 3 Marks, or 48 Schillings Lubsh. But there is a Difference between Bank Money and Hamburgh Currency. Bank Money is 16 per Cent. better. In Exchange for London, they give so many Schillings and Groot Vlamish for a Pound Sterling, 8 July 1744, 34 sh. 2 Groot Vlamish, which is Bank Money, and makes 12 Marks 13 sh. Banco.

LEGHORN. They keep their Accounts in Crowns of Gold, which is divided into 20 Solds, each Sold into 12 Deniers. A Crown of Gold, which they mark thus ϵ is divided otherwise into $7\frac{1}{2}$ Liras; and a Dollar or Piaster of Exchange is = 6 Liras; a Ducat = 7 Liras.

VENICE. They have two Sorts of Ducats, one Banque, and the other Courant, the latter 20 per Cent. worse, or as the Agio rules, than those called Bank Ducats; each of them are divided into 124 Soldi, or 24 Gross, or 6 Liras 4 Sols, for they account likewise by Liras, Soldi, and Picoli, as we do in Pounds, Shillings and Pence;

fo that they have two Sorts of Liras, though each divided in the fame Manner; one Lira di Gros is = 10 Ducats. A Sequin being = 17 Liras, and worth, by Sir Is A A c's Table, 9 s. 5.7 d. Sterling: Say, if 17 Liras give 9 s. 5.7 d. what will 7 Liras 8 Soldi a Ducat of Bank give? Answer 49.492 d.

GENOA. Accounts are kept in Liras, Sols, and Deniers, summed by 20 and 12, as we do, which are reduced into Dollars or Piasters of 96 Sols.

In FRANCE, Accounts are kept in Livres, Sols, and Deniers;

1 Livre is = 20 Sols, and 1 Sol = 12 Deniers.

In exchanging with that Country, we pay so many Pence Sterling for their Crown, by which Crown is always meant 3 Livres, or 60 Sols, though they have not always any coined Piece of Silver precisely of the Value of 3 Livres; therefore this ideal or nominal Crown is to be distinguished from the coined or real Piece of Silver, which passes likewise under the Name of a Crown or Ecu, but for Distinction Sake is called un Ecu d'Argent, or Ecu blanc, or a Crown of so many Livres; for this Crown in Specie may be double that of Account or Exchange, as it really happens to be at this Time; and consequently the Crown in Exchange is paid in France by the half of that real or specie Crown.

The Exchange between France and other Countries varies more than any other, owing to the frequent Alteration of their Coin, which is done by the King's Arret, wherein he declares and orders, how many Crowns in Specie or Livres, Sols, and Deniers are to be coined at his Mints out of the Mark, as they call it, or 8 of their Ounces of Silver; but this Mark is only 7 oz. 17 pwt. 12 gr. English Weight; which at 5 s. 2 d. is worth only 2 l. 0: 8 \frac{1}{4} Sterling. By the last Arret in France, 15 June 1726, the King orders, that there should be coined out of the Mark 8 \frac{1}{8} Crowns, each

Crown to pass for 6 Livres, that is, the Mark, when coined, to pass for 50 Livres 5 Sols; from whence we have this Equation, that 50 Livres 5 Sols French, are intrinsically worth or = 1. 2:0:8 1 from thence the Par of Exchange on the Crown or 3 Livres French; for if 50 Livres 5 Sols be = to 1. 2:0:8 + English, 3 Livres French must be = to 29.149 d. English, and whatever is paid more or less than this is Loss or Gain; and consequently, as the Course of Exchange then was, by the Account subjoined from CASTAIGN'S Paper, France had the Advantage of about 10 per Cent. shews their Ignorance, who, in Books printed on this Subject, pretend to note the Par of Exchange with France, as if their Coin remained always the same; whereas there is no other Way than by an actual Affay, and weighing their Species at the Time, or feeing the King's Arret; and indeed that Exchange is so variable, that I have known it within the Space of but a few Years, from 5 d. English to near 60 d. for their Crown of 3 Livres; the first indeed was payable in their Bank-Notes, then in great Discredit, viz. An. 1720.

In Madrid, Cadiz, Seville, and all Spain, Accounts are kept in Maravidies, 34 of which is = to a Rial, and 272 to a Piaster, or Piece of $\frac{3}{8}$ Rials new Plate, or 10 of Vellon. The Pistole of Gold is = to 4 Pieces of $\frac{3}{8}$. A Rial of Plate is worth 34 Maravidies of Plate, as a Rial of Vellon is worth 34 Maravidies of Vellon; so that those two Terms of Plate and Vellon in Spain, not only signify the different Metals of Silver and Copper, but the Difference in Accounts of Money, for the Piece of $\frac{3}{8}$, which is only = 272 Maravidies of Plate, is = 510 Maravidies of Vellon; so they say a Rial of Plate, or a Rial of Vellon; a Maravidies of Plate, or a Maravidies of Vellon; though the last is only a small Copper Coin.

Another Observation to be made on the Exchange with Spain, is, the late Alteration in the augmenting their Specie; the Dollar or Piaster which formerly went for 8 Rials, being now raised to 10;

fo that London exchanging upon the Piece of Eight of 8 Rids on that Country still as formerly, the Alteration in the Course of Exchange should be in Proportion thus, if 10 Rials of Plate, or a Dollar, be worth 54 d. Sterling, what is 8 Rials worth? Anfwer 43.2 d.

LISBON. Accounts are kept in Reas, whereof 1000 goes to what they call a Millrea, which is no real Coin but Money of Accounts; a Crusado of Silver is 480 Reas. But as most Payments are made in Gold, and sew or none in Silver, the Moeda being worth only 26 s. 10.4 d. the Rule to find the Par will be as follows, if 4800 Reas, for so many are in a Moeda, give 26 s. 10.4 d. what will 1000, or one Millrea give? Answer, 5 s. 7.166 d. which is near 2 per Cent. in our Fayour.

The following TABLE needs no Explanation to Merchants; but, to such as are not, they are to be informed, that it is a Copy of a Paper usually printed twice a Week, by an eminent Exchange Broker, or by one who is daily informed by the several Dealers in Exchange, of the current Prices of the Monies of the several Countries we deal in with that Way, and is looked upon to be very exact.

2. There are different Ways among Merchants of negotiating Bills of Exchange, according to the Custom of the Countries abroad on which they are drawn; for Example, if a Bill is demanded on Amsterdam, Rotterdam, Antwerp, or any other of the Seventeen Provinces, or on Hamburgh, the Negotiation is always meant to be on the Pound Sterling; and then the Question, or Bargain to be made is, how many Schillings and Pence Flemish are to be received in those Parts for each Pound Sterling; and as this varies according to the Demand, and one receives sometimes more, sometimes less, it is termed by some Writers on this Subject of Exchange, giving the Certain for the Uncertain, though not so properly. On other Coun-

tries it is the Reverse of this, for a Piece of a certain Value or Denomination is stipulated to be delivered abroad, and the Agreement to be made is, how much English Money is to be paid here for that Piece of foreign Coin; thus we exchange with France on their Crown or 3 Livres Tournois, with Spain on their Piece of Eight, with Portugal on their Milrea, &c. as may be seen in the Paper subjoined.

Lastly, It is to be observed, that the Value or Prices of English Money towards the Lest-hand, are the Rates at which Bills were actually negotiated on the Exchange of London the Post-day of that Date; and that the Column towards the Right-hand is the Par, or intrinsic Value by which may be known at any Time which has the Advantage, this or the Country we exchange with.

28 March, 1729, calcula		THE RESERVE OF THE PERSON NAMED IN		ar.	3	12 May, 1752.
Amsterdam Rotterdam Antwerp Hamburgh English Madrid for a Piece of Eight Genoa for a Dollar — — Leghorn for a Dollar — — Venice for a Ducat of Bank Paris for a Crown 3 Livres Lisbon for a Millrees — —	34 35 33 d. 43 - 54 - 54 - 54	.6 - -7 - -3 - -7 - -5 - -75 - -5 -	- 3' - 3' - 3' - 3' - 4' - 5' - 4' - 2'	6 6 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	.17 -	35 2 at 2 Months, 36 3 at 2 Months, 36 3 at 2 Months, 35 4 at 2 Months, d. 40 \(\frac{1}{4}\) at 3 Months, 49 \(\frac{7}{8}\) at 3 Months, 50 \(\frac{1}{4}\) at 3 Months, 51 \(\frac{3}{8}\) at 3 Months, 31 at Sight,
Thus far contains the from Sir Isaac NE		A STATE OF THE PARTY OF	*********		1729	s. d. 5 5 Price of Piastres, 5 6 Silver Standard. 1. s. d. 3 18 1 Gold in Bars, 3 18 2 Portugal Gold.

N a stricter Enquiry, I found, that at the Bank in Amsterdam, 200 new Ducatoons must weigh 26 Marks 3, 12 1, which is 211 & Ounces; and so if 101 & at Amsterdam are 100 in London, then 211 5 will be in London 209 \$ 19. And fo a Ducatoon, exact in Weight, must be 20 Penny-weight 22 Grains; and as they are coined at Amsterdam of 11 - Penny fine, it will turn out 3 Penny-weight better than Standard, which agrees with Sir Is A A c's Affays, thus,

If 11 Oz. 2 are 11 Oz. 5, then 20 Dwt. 22 will be 21 Dwt. 4. 18 Standard at 62 d.

and fo I Ducatoon in London worth 67 71 Pence; And if 65 7100 is 3 Florins — then 240, or 1 Pound Sterling, 60 Stivers

10 Shill. Flem. will be 36 - 52 Shillings Flemish, the Par between London and Amsterdam.

And the Difference in my Calculation to 37 135 Sh. Sect. LXXII. proceeds from the Ducatoons, the Assay in the Empire was made, of which 7 - Ducatoons were reckoned in a Mark Cologne; and I find them to have been short in Weight, and better in Fineness than 14. Loot 16, as I calculated them to be: But, upon the Whole, as no Coin made in England may be exported, nor any Quantity of full-weighty English filver Coin is to be met with in England, the Course of Exchange governs itself not thereby, but rather by the Portugal Gold, or the Price of Silver and Gold in Bullion, as is fet forth Sect. LXXV.

Merchants know that a Difference in the Exchange of five or fix Groot, will make Gold and Silver go to and fro between London and Amsterdam; but as is set forth, Sect. LXXXII. since a good Part of the Silver and Gold coming from Spain and Portugal, are the Returns for Goods from Germany fent thither, they have not always Occasion for taking it all in Goods from England; and so, in Course, Part of the same Bullion will often from England find its Way through Holland into Germany, and naturally the Exchange from London to Amsterdam, for most Times, must be under Par, so as to afford the Charges of fending over Bullion; and so in Reality, I observed it to have been, and you see by the above Course of Exchanges, it was in Anno 1729, and it is now; whereas, calculating the Par upon Gold, as Sect. LXXI. it renders 35 7 d. and the Course for Amsterdam at Sight is 35, of which Overplus of 7 Groot, we must deduct about 1 1 Groot, that the Gold in Bars sells at present above the Standard Price upon which I calculated, and so there remains 4 1/4 Groot, or 1 1/8 per Cent. for the Charges of fending over Gold to Holland; which, after deducting the Freight, &c. will leave only a Profit, or Premium for the Risk of the Sea of about per Cent. and in Effect we find, that the Exchange between London and Amsterdam seldom differs more from the real Par, calculated against the Prices of Gold or Silver in Bullion.

To calculate the true Par of the Exchange between Cadiz and London, it must be done by the Piastres, which continually come from thence; and there is now no Difference at all in the Fineness of them, which come from Peru, Mexico, or them which are coined in Spain, they are 4½ or 5 Penny-weight worse than English Standard, in Lieu of 1, 1½ Penny-weight which they were worse in Sir Is A A c's Time. If I remember right, it was in, or about the Year 1730, that the Court of Spain ordered to put in each Mark of Silver one Real more Alloy.

In London, in the Year 1746, I had 10,000 Ounces, or 833 11b of Pylar Dollars melted into 14 Bars, and found

808 lb. 6 7 22 Standard at 5 2 paid into the Bank of England, L. 2506

Remainders drawn out 1 lb. 1. 15 loft by meltof the melting Pot, afing or Soil in terwards made good at 5 by the Melters 833 lb. 4 Oz.

And I paid for melting 14 Bars at 4 Sh. L. 2 16 -Affaying, a 6 d. — — 7 — 7 — Two Mint-bills, a 1 S.— — 2 — J. 2506 12 5

Which Affay on Pylar Dollars agrees very well with an Affay on Mexico Dollars from the Year 1734 to 1736, made by the Mint-Masters in Germany in the Year 1738, where they found them to be of 14 \$ Loot finer, and to go raw 8 \$ in a Mark of Cologne (Vide Part LXXII. of the European States Chancellery.) And whereas from repeated Experiences, I can afcertain that 1000 new-minted Piastres at London generally weigh 867 1 Oz. fo a full-weighty Piastre ought to be in London 17 dwt. 8 2 gr. at 5 W. is 16 dwt. 23 gr. 1 mite; at 5 s. 2 d. is worth 52 35469 Pence.

and as ever fince the Year 1737, a Piastre in Spain passes in current for 10 & Rials of Plate.

2509 17 5

So if 10 \(\frac{1}{3} \) is 52 \(\frac{15469}{44400} \) d. then 8 Rials, or a Dollar in Exchange will be 39 \(\frac{2847216}{17772000} \) Pence, the true Par between English and Spanish filver Coin.

Sir ISAAC NEWTON's Representation to the LORDS of the TREASURY.

N Obedience to your Lordship's Order of Reference of August 12, that I should lay before your Lordships a State of the gold and filver Coins of this Kingdom, in Weight and Fineness, and the Value of Gold in Proportion to Silver, with my Observations and Opinion, and what Method may be best for preventing the melting down of the filver Coin; I humbly represent, that a Pound Weight Troy of Gold 11 Ounces fine, and 1 Ounce Alloy, is cut into 44 1 Guineas; and a Pound Weight of Silver 11 Ounces 2 Pennyweight fine, and 18 Penny-weight Alloy, is cut into 62 Shillings; and according to this Rate, a Pound Weight of fine Gold is worth 15 Pounds Weight 6 Ounces 17 Penny-weight and 5 Grains of fine (2) Silver, reckoning a Guinea at 1 l. 1 s. 6 d. in filver Money. (3) But Silver in Bullion exportable, is usually worth 2 d. or 3 d. per Ounce more than in Coin. And if, at a Medium, fuch Bullion of standard Alloy be valued at 5 s. 4 1/2 d. per Ounce, a Pound Weight of fine Gold will be worth 14 Pounds Weight, 11 Ounces, 12 Penny-weight 9 Grains of fine Silver in Bullion. And at this Rate, a

^{(2) 1} lb. fine Gold is 1 1 Standard,

^{44 1} Guineas.

^{2 21 1} s.

^{(3) 1717,} the 13th of January, the Guinea, by the King's Proclamation, was reduced to 21 Shillings.

Guinea is worth but so much Silver as would make 20 s. 8 d. When Ships are lading for the East-Indies, the Demand of Silver for Exportation raises the Price to 5 s. 6 d. or 5 s. 8 d. per Ounce, or above; but I consider not those extraordinary Cases.

A Spanish Pistole was coined for 32 Real, or 4 Pieces of Eight Reals, usually called Pieces of Eight, and is of equal Alloy, and the 16th Part of the Weight thereof. And a Doppio Moeda of Portugal was coined for 10 Crusadoes of Silver, and is of equal Alloy, and the 16th Part of the Weight thereof; Gold is therefore in Spain and Portugal of 16 Times more Value than Silver of equal Weight and Alloy, according to the Standard of those Kingdoms; (3) at which Rate, a Guinea is worth 22 s. 1 d. But this high Price keeps their Gold at Home in good Plenty, and carries away the Spanish Silver into all Europe; so that at Home they make their Payments in Gold, and will not pay in Silver without a Premium. Upon the coming in of a Plate-Fleet, the Premium ceases, or is but fmall; but, as their Silver goes away and becomes scarce, the Premium increases, and is most commonly about 6 per Cent. which being abated, a Guinea becomes worth about 20 s. 9 d. in Spain and Portugal.

In France, a Pound Weight of fine Gold is reckoned worth 15 Pounds Weight of fine Silver: In raising or falling their Money, their King's Edicts have some Times varied a little from this Proportion, in Excess or Defect; but the Variations have been so little, that I do not here consider them. (4)

By the Edict of May, 1709, a new Pistole was coined for 4 Lewises, and is of equal Alloy, and the 15th Part of the Weight thereof, except the Errors of their Mints. And by the same Edict

⁽³⁾ A Spanish Pistole now is 40 Rials, and the Proportion between Gold and Silveras explained Sect. LXXIII.

⁽⁴⁾ The Proportion how it is now, you find explained Sect. LXXIII.

fine Gold is valued at 15 Times its Weight of fine Silver; and at this Rate a Guinea is worth 20 s. 8 ½ d. I confider not here the Confusion made in the Monies in France by frequent Edicts, to send them to the Mint, and give the King a Tax out of them; I confider the Value only of Gold and Silver in Proportion to one another.

The Ducats of Holland and Hungary, and the Empire, were lately current in Holland among the common People in their Markets and ordinary Affairs, at 5 Guilders in Specie and 5 Stivers, and commonly changed for so much silver Monies in 3 Guilder-pieces, as Guineas are with us for 21 s. 6 d. Sterling; at which Rate a Guinea is worth 20 s. $7\frac{1}{2}$ d.

According to the Rates of Gold to Silver in Italy, Germany, Poland, Denmark and Sweden, a Guinea is worth about 20 s. 7 d. 6 d. 5 d. or 4 d. for the Proportion varies a little within the feveral Governments in those Countries. In Sweden Gold is lowest in Proportion to Silver; and this has made that Kingdom, which formerly was content with Copper-money, abound of late with Silver, sent thither (I suspect) for naval Stores.

In the End of King WILLIAM's Reign, and the first Year of the late Queen, when foreign Coins abounded in England, I caused a great many of them to be assayed in the Mint, and found by the Assays, that fine Gold was to fine Silver in Spain, Portugal, France, Holland, Italy, Germany, and the Northern Kingdoms, in the Proportions above-mentioned, Errors of the Mint excepted.

In China and Japan, I Pound Weight of fine Gold is worth but 9 or 10 Pounds Weight of fine Silver; and in East-India it may be worth 12. And this low Price of Gold in Proportion to Silver, carries away the Silver from all Europe. (5)

So

⁽⁵⁾ Till about the Year 1732, we know of great Quantities of Silver going from Europe to China, to fetch Gold back, which has caused the Price of Gold in China to

f-wine une erfile Dernings has child

So then, by the Course of Trade and Exchange between Nation and Nation in all Europe, fine Gold is to fine Silver as 14 \(\frac{4}{3}\), or 15 to 1; and a Guinea at the same Rate, is worth between 20 s. 5 d. and 20 s, 8 \(\frac{1}{2}\)d. except in extraordinary Cases, as when a Plate-Fleet is just arrived in Spain, or Ships are laden here for the East-Indies, which Cases I do not here consider. And it appears, by Experience, as well as by Reason, that Silver slows from those Places, where its Value is lowest in Proportion to Gold, as from Spain to all Europe, and from all Europe to the East-Indies, China and Japan; and that Gold is most plentiful in those Places in which its Value is highest, in Proportion to Silver, as in Spain and England.

It is the Demand for Exportation which hath raised the Price of exportable Silver about 2 d. or 3 d. in the Ounce, above that of Silver in Coin, and hath thereby created a Temptation to export or melt down the filver Coin, rather than give 2 d. or 3 d. more for foreign Silver; and the Demand for Exportation arises from the higher Price of Silver in other Places than in England, in Proportion to Gold; that is, from the higher Price of Gold in England than in other Places in Proportion to Silver, and therefore may be diminished by lowering the Value of Gold in Proportion to Silver. If Gold in England, or Silver in East-India, could be brought down so low as to bear the same Proportion to one another in both Places, there would be here no greater Demand for Silver than for Gold to be exported for India; and if Gold were lowered only so as to have the same Proportion to the filver Money in England which it has to Silver in the rest of Europe, there would be no Temptation to export

whole, fo far as we received Gold back, it has been but exchanging one Treasure for another; and I consider the Chinese hath only the better in what Silver they gave us Goods, and not Gold for.

Silver rather than Gold to any other Part of Europe. And to compass this last, there seems nothing more requisite than to take off about 10 d. or 12 d. from the Guinea, so that the Gold may bear the same Proportion with the silver Money in England, which it ought to do by the Course of Trade and Exchange in Europe: But if only 6 d. were taken off at present, it would diminish the Temptation to export or melt down the silver Coin; and by the Effects would show hereaster better, than can appear at present, what surther Reduction would be most convenient for the Public.

In the last Year of King WILLIAM, the Dollars of Scotland worth about 4 s. 6 ½ d. were put away in the North of England for 5 s. and at this Price began to flow in upon us. I gave Notice thereof to the Lords Commissioners of the Treasury, and they ordered the Collectors of Taxes to forbear taking them, and thereby put a Stop to the Mischief.

At the same Time the Lewidores of France, which were worth but 17 s. o $\frac{1}{4}$ d. a-piece, passed in England for 17 s. 6 d. I gave Notice thereof to the Lords Commissioners of the Treasury, and his late Majesty put out a Proclamation, that they should go but at 17 s. and thereupon they came to the Mint, and 1,400,000 l. were coined out of them; and if the Advantage of $5\frac{1}{4}$ d. sufficed at that Time to bring into England so great a Quantity of French Money, and the Advantage of three Farthings in a Lewidor to bring it to the Mint, the Advantage of $9\frac{1}{4}$ d. in a Guinea, or above, may have been sufficient to bring the great Quantity of Gold which has been coined in these last fifteen Years, without any foreign Silver. (6)

Some

⁽⁶⁾ As France always had the Balance of Trade with England on their Side, these 1,400,000 l. Lewidores apparently came for setching Silver, and cannot be considered as to have been of any Advantage to England. It is no Wonder, that the Advantage of 3 Farthings in a Lewidor should bring them into the Mint in England, since

Some Years ago, the *Portugal* Moedors were received in the West of *England* at 28 s. a-piece; upon Notice from the *Mint*, that they were worth only about 27 s. 7 d. the Lords Commissioners of the Treasury ordered their Receivers of Taxes to take them at no more than 27 s. 6 d.

Afterwards, many Gentlemen in the West sent up to the Treasury a Petition, that the Receivers might take them again at $28 \, s$. and promised to get Returns for this Money at that Rate, alledging, that when they went at $28 \, s$. their Country was full of Gold, which they wanted very much: But the Commissioners of the Treasury considering, that at $28 \, s$. the Nation would lose $5 \, d$. a-piece, rejected the Petition. And if an Advantage to the Merchant of $5 \, d$. in $28 \, s$. did pour that Money in upon us, much more hath an Advantage to the Merchant of $9 \, \frac{1}{2} \, d$. in a Guinea, or above, been able to bring into the Mint great Quantities of Gold without any foreign Silver, and may be able to do still, till the Cause be removed.

If Things be let alone till filver Money be a little scarcer, the Gold will fall of itself; for People are already backward to give Silver for Gold, and will, in a little Time, refuse to make Payments in Silver, without a Premium, as they do in Spain; and this Premium will be an Abatement in the Value of the Gold: And so the Question is, Whether Gold shall be lowered by the Government, or let alone till it falls of itself, by the Want of silver Money?

It may be faid, that there are great Quantities of Silver in Plate, and if the Plate were coined, there would be no Want of filver

fince he who brought it in was at no Charges; and what he received back thereby became to be the Coin, which no body could refuse to take: But it is a Question with me, if such French Coin, exact in Weight, might not as well have been suffered to circulate for its full Value of 17 s. and 3 Farthings a-piece, than to proclaim them to pass not above 17 s. which would have saved the Government about 9000 L. Charges of minting.

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Money: But I reckon that Silver is safer from Exportation in the Form of Plate, than in the Form of Money, because of the greater Value in Silver and Fashion together; and therefore I am not for coining the Plate, till the Temptation to export the silver Money, (which is a Profit of 2 d. or 3 d. an Ounce) be diminished: For as often as Men are necessitated to send away Money for answering Debts abroad, there will be a Temptation to send away Silver rather than Gold, because of the Profit which is almost 4 per Cent. And for the same Reason, Foreigners will chuse to send thither their Gold rather than their Silver.

All which is most humbly submitted to your Lordships great Wisdom.

Mint-Office, Sept. 21, 1717.

ISAAC NEWTON.

ABSTRACT of the Indenture between his MAJESTY and the MASTER and WORKER of the Mint.

HE KING, by Indenture under the Great Seal, confirms the Office of Master and Worker of the Mint to A. B. during Pleasure; and he is to receive all the Monies appointed by Acts of Parliament, for defraying the Expence of the Mint.

A. B. covenanteth to make the Money in Manner following, viz.

To make five Sorts of Money of Crown Gold.

- 1. The quarter Guinea, Value 5 s. 3 d. at 178 in the Pound Weight Troy: This not to be coined but by his Majesty's, or the Treasury's special Direction.
 - 2. Half Guinea, Value 10 s. 6 d. at 89 in the Pound Weight.
- 3. The Guinea, Value 21 s. at 44, and the Weight of 10 s. 6 d. to the Pound Weight.
- 4. The Double Guinea, Value 42 s. at 22, and the Weight of to s. 6 d. in the Pound.
- 5. The Five Guinea Piece, or 5 l. 5 s. at 9, wanting the Weight of 10 s. 6 d. in the Pound.

Every Pound Weight Troy of Gold, to be in Value 46 l. 14 s. 6 d. in Fineness at the Trial, 22 Carrats of fine Gold, and 2 Carrats of Alloy: This to be the Standard of Gold.

The Master to have 6 s. 6 d. for the Coinage of every Pound Weight Troy of gold Monies; out of which he is to pay unto the Moniers 3 s. for their Labour for every Pound Weight.

If the gold Money be not continually made, according to the right Standard, but in Default of the Master, it shall be found sometimes too strong, or too feeble, by too much or too little in Weight, in Fineness, or both, the 6th Part of a Carrat in a Pound, which shall be called Remedy for the Master, the Money shall be delivered for good.

But if Default be over the 6th Part of a Carrat, the Deliverance shall cease, and that Money adjudged less than good, and be new molten, and re-coined at the Charge of the Master, till it be put to point as Money deliverable.

Excepting only the quarter Guineas; for these Pieces not being able to be sized with the same Exactness as the larger Pieces of Gold may be, there shall be added to the said Remedy in Weight, half a Grain for every sour quarter Guineas in the Pound Weight of the Monies tried.

These Defaults must happen by Casualty, or else no Allowance for them,

The Gold is to be coined in fuch Pieces, as his Majesty, by his Sign manual, shall direct.

The Master to make Eight Pieces of Silver Monies, viz.

- 1. The Crown at 5 s. and 12 of them, and 2 s. in the Pound Weight.
 - 2. Half Crown at 2 s. 6 d. and 24, and 2 s. in the Pound.
 - 3. The Shilling, at 12 d. and 62 to the Pound.
 - 4. Half Shillings, at 6 d. and 124 in the Pound.
 - 5. The Groat, or 4 d. and 186 in the Pound.
 - 6. The Half Sixpence, or 3 d. at 248 in the Pound.
 - 7. The Half Groat, or 2 d. at 372 in the Pound.
 - 8. The Penny, 744 in the Pound.

The Pound Weight of Silver to be 3 l. 2 s. and shall be in Fineness at the Trial 11 Ounces 2 Penny-weight, and 18 Penny-weight of Alloy, which is the old right Standard of the Monies of England.

The Gold Money is to be made agreeable in Fineness to the indented Trial-pieces made by Direction of K. James II. Anno quarto Reg. sui, and all Monies of Standard Silver, agreeable in Fineness to the respective Trial-pieces made 1 Geo. II. which Trial-pieces remain in six several Places, viz. in the Treasury, with the Warden of the Mint in the Tower, the Master and Worker, the Wardens of the Company of Goldsmiths, in Goldsmiths-Hall, in the Exchequer of Scotland, and with the General and other Officers of the Mint in Scotland.

The Master to have 1 s. 4 \(\frac{1}{4}\) d. for Charges of coining every Pound Weight Troy of silver Monies, of which he is to pay 8 d. for every Pound Weight to the Moneyers.

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The Master is to pay to the Warden of the Mint 1470 l. per Annum, for the Fees and Salaries of the respective Officers of the Mint.

The Remedy for the Master in the silver Money is, when on Assay before Delivery, the Money is found too strong or too seeble, all only in Weight, or all only in Fineness, or in both, by 2 Pennyweight in the Pound Weight Troy, after the old Computation of 20 Penny-weight in the Ounce. And if Desault be over the said 2 Penny-weight, the Money shall cease to be delivered, and be re-coined at the Charge of the Master.

The Master may receive, as well his Majesty's Bullion of Gold and Silver, as the Bullion of any other Persons whatsoever, to be coined as aforesaid, delivering to the Parties bringing the Bullion, Bills testisying the Weight, Fineness and Value thereof, with the Day and Order of its Delivery into the Mint.

The Warden and Comptroller of the Mint, and his Majesty's chief Clerk, and Clerks of the Papers, for the Time being, shall enter in Ledger-books, all Bullion as shall be brought into the Mint; which Entry shall comprehend the Weight, Fineness and Value of the said Bullion, the Parties Names who brought it, and what Day. And then the Bullion is to be put in a Chest or Room, locked with three Keys, one of which is to be kept by the Warden, another by the Master, and the third by the Comptroller, and to remain there till delivered for Coinage.

The Warden, Comptroller, and his Majesty's Clerk, shall keep several Books of melting, declaring in the same, the Quantity and Fineness of all Gold and Silver, and Alloy put into the Melting, with the Report of every Assay, called the Pot-assay; and the said Books shall remain to charge the Master withal, and they shall be monthly

monthly subscribed and figured by the Warden, and the Master and Comptroller.

The Affay-master shall keep a Book of all Bullion brought into the Mint, whereby the Quantity and Fineness may appear, with the Report of the Affay of every several Pot, commonly called the Potaffay, which shall be made of some Ingot of the said Bullion, to be taken by the Warden, Comptroller, and Affay-master, or any two of them, after the Pot is cast out.

If any happen to bring into the Mint, Gold or Silver nigh to the Standard aforesaid, the Master shall receive it for the Value accordingly, so as the Charges to make it agreeable to the Standards aforesaid, be borne by his Majesty.

The Master impowered to put such privy Mark on the Edges of gold and silver Coin, from Time to Time, as he shall think convenient.

The Warden and Comptroller, or their Deputies, are to over-fee and survey the assaying, melting, sizing, and making of the gold and silver Monies, and to see the Balances and Weights always amended, and put to point.

The Surveyor of the Meltings shall keep a Book, containing the Weight of Gold and Silver as shall be molten, with the Alloy put into the same.

When the Monies be coined and compleat, the Warden, Master, and Comptroller, shall put them into a Chest or Room, locked with three Keys, one of which is to be kept by each of them, until Proof and Trial be had of the said Money, and Payment be made to the Bringers-in of the Bullion.

The Proof to be made before Deliverance, by the Assay-master, in Presence of the Warden, Master, and Comptroller: And, being made, a Portion of the said Monies shall be taken and put into a Box by the Warden or his Deputy, in the Presence of the Comptroller and Master, or their Deputies; whereof the Assay shall be made, before his Majesty, or such of his Council as shall be appointed by him at Westminster, or elsewhere, as he or his Council shall think sit, viz.

For every Journey Weight of Gold, not exceeding 15 Pound Weight two Pieces, whereof the one to be for the Pix, and the other for the Assay.

Out of every Journey of filver Monies, containing 60 Pounds Weight two Pieces, at least, the one Moiety thereof to be given for the Pix, and the other for the Assay.

They shall be sealed with the Seals of the Warden, Master, and Comptroller, and the Box shall be shut with three Keys, which shall by them be kept.

And the Pix shall remain in a Chest or Room, as aforesaid, to be opened on reasonable Warning, when his Majesty, or his Council shall appoint.

And Assays shall be made in the Presence of the Warden, Master, and Comptroller, of the Fineness and Weight of the Gold and Silver in the Box by Fire, Water, Touch or Weight, or by all; that if they be found good, the Master be quit against his Majesty and all his People to that Day; and the Master then to have Letters Patent for his Acquittance, without Fee; and this Indenture to be a sufficient Warrant for putting the Great Seal thereto.

If the Money shall not, on the Assay, be of the full Standard, yet within the Remedies aforesaid, the Lack thereof shall be entered on Record, by the Warden and Comptroller, or whom they shall appoint, and a true Account thereof shall be made to his Majesty, and the same be fully answered to his Majesty, without any Profit to grow to any other Person for the same.

Saving, that in Case by the said Assay, it shall be found, that the same Monies do pass at any Time the said Standards, so as to be better, but yet within the Remedies, then so much shall be entered of Record, and hold Place to the Master, in the Charge which he shall have, when any Lacks shall be sound by the said Assay under the Standard.

If any Default be found in the faid Monies, without the faid Remedies, the Master shall make Fine and Ransom to his Majesty at his Will.

The Warden, Master and Comptroller, may take up as often as they will, as many Gravers to grave Irons at his Majesty's Price, and as many Smiths, Workmen and Labourers, and Necessaries for making the said Iron and Monies, and doing all Businesses in the Mint, as they shall think sit, and punish or remove them as they shall think sit, on due Occasion; and all his Majesty's Officers are to be aiding to them therein.

The Master is bound to receive all Gold and Silver brought to the Tower, after the Value as it shall appear by the Assay to be better or worse than the Standard.

And in Case of Dispute of the true Value between the Master and Merchant, his Majesty's Assay-master, in the Presence of the Warden, Master and Comptroller, shall try the same; and the Master

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ter shall receive the same, and stand charged in Manner as it be-

All Officers of the Mint and their Servants, and all Persons bringing Gold or Silver to the Tower, shall have free Ingress and Egress at all Times, without any Arrest for Debt or other Matter, by the Officers of the Tower, and without any Fee.

The Warden, Master, and Comptroller, are bound to give their Attendance at the Mint, every Wednesday, or such other Days, as they shall appoint, for Receipt of Bullion, and Delivery of coined Monies.

The Master is to pay 52 l. per Annum towards the Charges of the Diet of 104 l. heretofore allowed to the Officers of the Mint, and his Majesty is to pay and allow the other 52 l. to be paid by the Warden.

The Warden to account yearly before the Auditor of the Mint, and to be allowed on the same, all Payments, and Receipts, vouched by the Master, Comptroller, and Assay-master, or any two of them, whereof the Master to be one. And on stating and answering his said Account, the Warden to have Letters Patent of Acquittance, under the Great Seal, without Fee therefore.

Confirmation to all Officers of the Mint, of all Houses and Grounds, within the Mint, exempt from any Claim of the Officers of the Tower.

All Charters and Franchises also confirmed to them.

The Moniers, Workmen, and all other Ministers of the Mint, to be ready to do their Work at the Warning of the Warden, Master, and Comptroller, on Pain of Loss of Franchise and Imprisonment.

The Gold and Silver by the Master delivered to the Moniers to be coined, shall be in clean Plates, and delivered by Weight; and the the Moniers to re-deliver the same, when coined, in clear Pieces proportionably by the same Weight; and if any Thing lack of the same Weight, they are to content the said Master for the same, at every Deliverance at the Balance; and the Master then is to pay them their Wages. And to perform his Covenants to the King, and his People, the Master has taken his Oath in Chancery, and given Sureties in the Exchequer in 2000 l.

The Master covenants from Time to Time, to bring into the Mint convenient and sufficient Supplies of Gold and Silver, and make full Payments and Deliverance of all Manner of Monies, with all convenient Speed; and to bear all Manner of Waste about coining, according to the Allowances before specified.

The Warden is to pay the Officers of the Mint their Wages appointed.

The Master is bound to bring all the Gold and Silver, that he shall receive by Colour of his Office into the Mint, to be made into Monies without Sale, aliening, or putting it to any other Use:

Excepting all such healing Pieces, Seals, and Medals of Gold and Silver, as shall be made for his Majesty's Use, or by his Majesty's Command.

The Warden, when he shall think fit, is to make two Piles of English Weights, that may be done with the most Exactness, to be equal to those lawfully used in the Mint; which, when made, shall be brought to the Tower, and there examined and printed, with a Rose crowned, and a Thisse crowned, in Presence of the Officers of the Mint; and then the Warden shall deliver one of them to the General of the Mint in Scotland, to be carried thither, and remain there, and the other to remain in the Tower with the said Warden.

The Master to account yearly before the Auditor of the Mint, and his Account being stated and fully answered, he shall have Letters Patent for his Acquittance without Fee, and this Indenture to be a sufficient Warrant to put the Great Seal thereto.

The Master is to pay from Time to Time, to the Warden, such Sums as shall be requisite to be paid to Officers for their Fees and for Repairs, and such other Expences of the Mint.

The Master is to retain in his Hands out of the Monies to be received on the Act for encouraging the Coinage, 1255 l. per Annum, for Fees and Salaries due to himself and other Officers.

The Warden, Master, and Comptroller, and their Deputies, shall, before their being admitted into the Knowledge of the Invention of rounding of his Majesty's Monies, and marking the Edges of them with Letters or Grainings, take an Oath before the Treasury, not to reveal the same to any Person whatsoever, directly or indirectly, without Command of his Majesty, his Heirs or Successors: And the Workmen employed in making the said Instruments, shall take the like Oath before the Warden of the Mint.

The Provost and Moniers, their Apprentices and Servants, are strictly charged not to vend, pay, or distribute any Piece of coined Money, until the same be delivered, according to the Course of the Mint, on Pain of losing their Franchise, and Imprisonment.

That no Person inhabit within the Mint, without the Approbation of the Warden, Master, and Comptroller.

The Comptroller is to deliver, on Oath, before one of the Barons of the Exchequer, a Roll, called the Comptroller's Roll, containing an Account of all the gold and filver Bullion, and Alloy molten, and all gold and filver Monies coined monthly in the Mint.

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And the Master, or his Deputy, shall pay to such Workmen, as shall be employed in making of several gold and silver Pieces round, before they are sized, and marking the Edges with Letters or Grainings, and for keeping in Repair all the Rollers and Instruments to cut, slatten, make round, and size the Pieces, and to mark the Edges of the Monies with Letters or Grainings, and all other Tools, Engines and Instruments, such Allowances as shall be directed by the Treasury, not exceeding 6 d. for every Pound Weight Troy of gold Monies, and $1 \frac{1}{2} d$. for every Pound Weight Troy of silver Monies.

The Master is to pay to the Provost and Company of Moniers 1 d. by Tale, of every Pound Weight of all silver Monies to be coined, over and above the ordinary Price of 8 d. allowed them.

Provided that the Moniers, having the Gold and Silver delivered to them in clean Ingots, fit to be wrought, shall deliver Seventwelfths of the same in Money, so that there be but 5 Parts in 12 Scissel.

The Clerk of the Irons is to keep a true Account of all the blank Dies for coining the gold and filver Monies which shall be delivered to the chief Engraver or Engravers of the Mint; and also of all the blank Dies, which shall be sunk or stamped by the said Graver or Gravers; and of all Dies, which, after sinking, shall be made fit for Use and hardened.

And the Graver or Gravers, are strictly enjoined to return monthly to the Clerk of the Irons, all Dies that shall from Time to Time be faulty and worn, to be defaced in Presence of the Wardens, Master, and Comptroller.

And the Clerk of the Irons is enjoined to give an Account to the Warden, Master, and Comptroller, of what blank Dies have been delivered to the Gravers, or sunk by them, or hardened by the E e Smith, Smith, and what faulty ones have been returned by them to be defaced, and what are remaining in their Hands.

The Gravers shall not make any Puncheons, Matrices, Dyes or Stamps, but in such Places of the Mint as shall be appointed by the Master, Warden, and Comptroller.

For the more exact fizing of gold and filver Coins, to be made by the Mill and Press, it is commanded, that the Counterpoise of the respective gold and filver Coins be made lighter than their just Weight, according to the Proportions following, viz.

That two Grains be taken from the Counterpoise of the Crown;
One Grain from the Half Crown;
Half a Grain from the Shilling;
One Fourth of a Grain from the Six-pence;
Two Grains from the Five Guinea Piece;
One Grain from the 42 Shilling Piece;
Half a Grain from the Guinea;
One Fourth of a Grain from the Half Guinea;
One Eighth of a Grain from the Quarter Guinea.

The Provost, and Moniers, and their Apprentices, are to attend Morning and Evening, in such Manner as the Master shall appoint, on Pain of being removed, or otherwise punished, as the Master, Warden, and Comptroller shall think proper.

These Agreements to be in Force only during his Majesty's Pleasure.

FEES and SALARIES payable by the Warden.

O the Warden for him	felf	1000 July 1000	_	£. 400	0	0
More for a Clerk		- Samuel	-	50	0	0
To the Comptroller —	20.00		Statement of	300	0	0
More for a Clerk —	-	T. C. T. SCHOOL	400333	50	0	0
To his Majesty's Assay-master	_	STATE OF THE PARTY OF	_	200	0	0
More for a Clerk —	_		-	25	0	0
Weigher and Teller -	-	eneminary a	1600	130	0	0
More for a Clerk	_	_	_	12	10	0
Surveyor of the Meltings	_	_	_	80	0	0
More for a Clerk —	_	_	_	12	10	0
Clerk of the Irons —	_	_	_	40	0	0
Auditor of the Mint -	_	_	_	40	0	0
His Majesty's Chief Clerk		_	_	60		0
Porter of the Mint -	_		-	25	0	0
Clerk of the Papers -	_	-	_	40	0	0
Minister — —	_	_	_	4	0	0
Sexton — —	-	_	-	1	0	0
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FEES and SALARIES payable by the Mafter.

M ASTER and	Worke	r for hir	nfelf		500	0	0
For three C	lerks	_	-	_	150	0	0
For one Affayer	_	_	-	-	60	0	0
For a Purveyor	_	-	-	_	25	0	0
Provost of the Mo	oniers	-		_	100	0	0
Chief Engraver	_		-	_	200	0	0
Second Engraver	-	-	-	-	80	a	0
Smith-affistant to t	-	-	40	0	0		
To another Clerk to the Warden			-		100	0	0
A BRIEF				£	. 1255	0	0
					1470	0	0
					2725	Q	0

These are the constant Fees and Salaries of the Officers of the Mint; and the Reader may observe, from the foregoing Abstract of the Indenture, that all the other Expences of the Coinage (except the Charges of providing and maintaining Houses, Offices, and Utensils) depend upon the Quantities of gold and silver Monies coined. Whatever these Expences are, they are greatly compensated by the Conveniency and Advantage that Trade receiveth from having a Coin, which is easy to be understood by all Degrees of People, and is adjusted to the Monies of Account.

DISQUISITION

INTO THE

Nature of GOLD and SILVER,

AND INTO THE

Art of ASSAY and REFINERY;

WITH

Other MATTERS requisite to the well Underflanding the QUALITIES of those METALS, and the avoiding Frauds therein:

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DISQUISITION

INTO THE

Nature of GOLD and SILVER, &c.

OLD, when fully maturated or melted, hath neither a fulphurous or terrestrial Impurity; but while in a State of Concoction, it hath both joined to it, as appears in the native Ore: But then they do not so adhere as not to be separable from it, which may not be done in other Metals without destroying both, as the Involution or Mixture is so predominant in the latter, and so minutely found in the former.

Gold hath so little of these corruptible Principles mixed with it, that the inward Sulphur or metalline Spirit, doth sometimes overcome them of itself, as is to be seen in the Gold sound pure on the Superficies of the Earth and the Sea-sands, often as pure as any refined Gold, and is washed down from the Mountains.

It is therefore the most noble and solid of all Metals, and when of the highest Degree of Fineness, is of a deep yellow Colour, compacted of Principles digested to the uttermost Height, and therefore fixed. Silver, in the highest Degree of Fineness, is a pure White, and in the next Degree of Dignity to Gold, and differs from it chiefly in Digestion, as there is some small adhering Impurities.

It is nevertheless a Mineral of that excellent Quality, that, when perfectly fine, it will endure melting a long Time in extreme Heat, with but very little Waste, which Quality is not in any other Metal except Gold, which, in Perfection, will endure the Fire with less Waste.

For these peculiar Excellencies, and their Capacity of being wrought into such a Variety of useful and ornamental Things, they are deservedly esteemed above other Metals, and being the most precious of Minerals, and most portable, are very justly made the Medium of Trade, and to answer all the Purposes of Purchases or Barter by a stated Value and Equivalence.

Our Ancestors, considering that Silver in its finest Degree, was too fost for Use and Service, being almost as soft as Lead, did contrive, at once, to harden it for Service, and, at the same Time, preserve its native Whiteness; and as too little Alloy lest it too soft, so too much made it brittle, they, in a Course of various Processes, found the true Medium to be Eighteen Penny-weight of fine Copper, to eleven Ounces two Penny-weight of the finest Silver, making together one Pound Troy. By which Standard is understood that Expression in the Statute of Eliz. Cap. XV. Not less in Fineness than that of eleven Ounces two Penny-weight.

The first Contrivers and Fixers of this Alloy were the Easterlings, in the Time of RICHARD I. who came from the Eastern Part of Germany, and gave this Standard the Denomination of STERLING, and the Mark of the Leopard's Head is prescribed by the Statute 28 Edw. I. Cap. XX.

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The Standard of Gold is settled by the above Statute of Eliz, at twenty-two Carracts fine.

Carracts are the 24th Part of either a Pound, or of an Ounce Troy, and are thus compounded, of the Pound CARRACTS two Pennyweights and twelve Grains Troy make a Carract Grain, four of such Carract Grains make one Carract, or ten Penny-weight Troy, and Twenty-four of such Carracts one Pound, or twelve Ounces Troy.

Of the Ounce Carracts, five Troy Grains make one Carract Grain, and four of such Carract Grains make one Carract; and twenty-four of such Carracts make an Ounce Troy.

For the Discovery of false Gold and Silver from that which is good, and to know the true Value thereof, the Manner is, the Assaymaster puts a small Quantity of Silver on a Cople or Test on the Fire, and when refined to the highest Degree of Fineness, taking it out again, he, with Scales, that will turn with the hundredth Part of a Grain, by the Waste of that small Quantity, computes how much Impurity or Adulteration is in each Ounce or Pound, from whence the Assay is taken.

The Assay of Gold is taken in the same Manner, and after being refined on the Cople, it is beat thin, and rolled up loosely, and then put into warm strong Aqua Fortis, which will purify it from the Silver, and the Gold will remain in the thin Plate, although very brittle.

Another Manner of ASSAY without FIRE.

Make several Needles of silver Wire, each of them about four Inches long, and as big as a large Pack-needle, of various Degrees of Badness of Alloy; as one Needle 3 d. another 6 d. a third 9 d. a fourth

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Is. a fifth Is. 3 d. a fixth Is. 6 d. in the Ounce worse than the Standard.

Thus composed.

dwt. 9 — 0 —	gr. — 12 of sterling Silver — 6 of Copper — 6 of Brass	These melted together will be 3 d. worse than Standard.
9 <u> </u>	o Sterling Silver - 12 Copper — — 12 Brass — —	These 6 d. worse than Standard.
8 — • —	- 12 Sterling Silver 18 Copper 18 Brass	These will be 9 d. worse than Standard.

And so by such Degrees of a Penny-weight of Alloy in the Ounce, you may compose several Alloys; for 4, 6, 8, 10, 12, 14, or 16 Needles, differing 3 d. in the Value of each Needle by the Ounce, and the surest Way is, when the Needles are all made to have a distinct Assay made of each Needle, and the reported Goodness marked on each of them.

Make these Needles all with Loops at one End, and hang them on a Ring of silver Wire, and all with blunt smooth Points.

The Silver you would try by these Needles, rub on a smooth clean Touch-stone, then by it rub the Needles as you judge nearest the Test, and so continue the Experiment, until you find the Touch of the coarse Silver and the Needle to be alike; then for the Value refer to the Mark on your Needle.

A compleat Ring of Needles may be made under the Weight of two Ounces, and if prettily formed and ingeniously managed, will make a Discovery very near of the Badness of any Sort of adulterated Silver.

In the same Manner small Pieces of Gold of several Alloy, may be fixed at the Ends of the silver Needles, for the judging the Degree of Adulteration in Gold.

As to a general Judgment of the Fineness of SILVER, you may try it thus; rub some Place least in Sight, with a File of indifferent Fineness, and if it be worse than Sterling, it will appear yellowish, or after filing it, rub it on the Touch-stone, and close by it rub the Edge of a Half-crown, or other Piece of standard Silver of like Thickness, and the Difference, if any, will appear.

The Reason of filing is, because that the artificial boiling of coarse filver Work, will so eat or dissolve the Alloy that is on the Surface or Out-side thereof, that unless it be filed, it will touch on the Stone Six-pence, or Eight-pence in the Ounce better than it is.

There is good Cause to suspect the Coarseness of the Silver, when the Work rises in Blisters, or peels, or scales off in thin Scurs, or stakes, which Scale, Scurs, or Blistering, is caused by the eating the Alloy as aforesaid; and the Silver thus separated from the Alloy will remain of an infirm spungy Body, therefore peel as aforesaid.

Touch-stones are usually purchased of the Ironmongers; the best Sort are very black, and of a fine Grain, polished very smooth, and without any spungy or grain Holes, and near the Hardness of a Flint, but yet with such a sharp cutting Grit, that it will cut or wear the Silver or Gold when rubbed thereon.

To

To make a true Touch, take Care that the Stone be very clean, and to make it so, if foul or soily, first wet it, then rub it dry with a clean woollen Cloth; if the Stone be very hard, and is full of Touches of Gold or Silver, you must rub them off with a Pummice-stone; if not very hard, rub them first with a fine blue Hone, and then with a well-burnt Charcoal in Water, and observe that the smoother you make the Touch-stone, the clearer will be the Touch; therefore whether you use the Pummice, Hone, or Charcoal, prepare them very even, and rub them on the Touch-stone very lightly; and if there be any Grain, cross it lightly, then your Silver being filed, rub it steadily and very hard . on the Stone, not extending the Touch above a Quarter of an Inch long, and no broader than the Edge of a Five-shilling Piece; and when you have touched with the feveral affay'd Needles, wet all the touch'd Places with your Tongue, and each will respectively shew itself in its proper Countenance.

The Gold-standard, by Law, is twenty-two Carratts of the finest Gold, and two Carratts of fine Copper and Silver equal Parts; and by this may be clearly understood that Expression in the Statute 18 Eliz. Cap. XV. not less in Fineness than that of twenty-two Carracts, to be the Standard for all gold Wares, worse than which Alloy no gold Wares are to be made on the Penalty therein mentioned.

And if any Persons are desirous of having what they have purchased either of gold or silver Wares assay'd, they may apply to the Assay-master at Goldsmith's-Hall, whose Fee is Six-pence an Assay of Gold, and if resused, or distatisfied with the Operation, they may apply to the Assay-Master of the Mint in the Tower, whose Fee is for a gold Assay One Shilling, and for Silver Six-pence.

And here note, that twelve Grains Troy is sufficient for an Assay of Gold.

The Assay-furnace is either made with Brick upon a Chimneyhearth, or in an Iron-case, thick and well luted, removeable to any Place at Pleasure, the Inside round or square, about fix or seven Inches over, and about twenty Inches high; at the Bottom must be an Air-hole five or fix Inches wide, and three Inches high, and at about eight Inches high within must be a Grate fixed, and even to it; over the other must be another Air-hole about three Inches fquare, without which must be a Space to lay some burning Coals, upon which Grate must be placed a Muffle, which may be made of a large three-fquare Crucible, with a Hole a Quarter of an Inch wide in each Side, and one fuch Hole in the small End: Or the Muffle may be made of broken Crucibles, finely powdered and tempered with a fifth Part of Tobacco-pipe Clay, flat at Bottom and circular over, with three Holes as the former; dry it well in the Shade, and then neal it in a gentle Fire. The Mouth of the Muffle must be closed with Lute to the upper Holes, resting upon the Grate as aforesaid, and a Space must be by the Sides and further End of the Muffle, sufficient to permit the Fire to be strong on the Grate, as above the Muffle, and the Charcoal, gently kindled, will not break the Muffle; and a Fire must be always before the Muffle, to make the Heat equal on the Cople.

The Manner of making the Cople or Tests is this; Take of Sheep Bones that are burnt very white, beat and sift them to a fine Powder, which moisten with Water to such a Degree, that when well chased between the Hands, or with a Piece of Board on a Table, that being grasped in the Hand, it will be clammy, and hold together without wetting or sticking to the Hand. Then take a round flat Piece of Brass an Inch thick, and three or four Inches over, thro' the Centre whereof make a taper round Hole, the one End near as H h

wide as a Crown, the other as a Half-crown Piece, which Hole polith very fmooth; lay the Brass on a level Anvil, the widest End of the Hole uppermost, fill it with the prepared Bone-ashes, and press it hard with your Hand, have a drift Pin of Brass made globular at the lower End, and a Shoulder round it to rest upon the Edge of the Hole to keep the round End from running in too far, then drive it down into the prepared Ashes with a wooden Mallet, and, if well executed, it will unite the said Ashes into a Cople, and the Top thereof will be hollow, like the Vessel called a Skimming-dish; then with your Thumb thrust the Cople out of its Case, and set it on a loose Board on a Shelf, and, when thorough dry, it will be hard; and, when used, kindle the Fire gradually, or put it in by Degrees, to prevent its cracking or cleaving.

Here note, that when the Silver is fined to the highest Degree, and cold on the Cople, it will appear bright and clear from the least Sully or darkish Colour, and of the Countenance of pure Tin.

And note further, that the Assay-scales must turn with the 740th Part of a Grain Troy; and that the Standard Assay-weight being in one Pan of the Scale, the Weight of Alloy in 12 Grains of Standard must be in the other, with the refined Silver; and if that makes the Balance even, then the Silver from whence it was extracted is Standard. The same Method is to be used in assaying of Gold.

It is not lawful to use any other than Troy-Weight for the weighing of Gold and Silver, of which

- 24 Grains make an Old Sterling Penny, or three Penny-weight,
- 20 Penny-weight one Ounce,
- 12 Ounces one Pound.

The compounding these Weights for the assaying and computing the Standard of Gold as abovesaid, are called Carracts.

There are other Sort of Carracts compounded of Troy-grains, thus;

4 Grains make a Carract,

6 of fuch Carracts make a Penny-weight,

120 of fuch Carracts make an Ounce Troy.

These are only used to weigh Diamonds, &c.

There are other Sorts of Weights by some used amongst us, called Venice Weights, and are made in Nests of the same Fashion as the Nests of Troy Ounces are, and every one double the Weight of the next lesser, but in another Respect very different, as the Ounce contains but thirteen Penny-weight and One-half, and are fraudently, and without any Authority, used by the Sellers of gold and silver Lace, but may, on Inspection, be distinguished from the others; as the true Standard Troy-Grain is marked G, with a Coronet on the Head of it; the Penny-weights with as many O's as they contain, as also is, or should be, a Lion on every Weight; the Ounce, and every one upwards, are marked with numeral Letters of such Numbers as the Piece contains Ounces, and also every Weight marked with two Letters made thus (R) for Troy, and are, or should be, marked with the Lion and Leopard's Head crowned. The Standard of these Weights is kept at Goldsmiths-Hall.

The Averdupois, is the Weight commonly in Use for all Commodities, and differs from the Troy in the following Proportion;

Troy Ounce - - 20 Penny-weight,

Averdupois ditto - 18 ditto,

Troy Pound - - 12 Ounces,

Averdupois - 16 ditto.

But

But these last not concerning Gold and Silver, are only mentioned by Way of Distinction.

And here it is to be particularly noted, that the most common Frauds in silver Ware, and most to be guarded against, are such as Sword-hilts, Buckles and Buttons of all Sorts, Clasps, Verrils, Snuff-boxes, Instruments and Cases, and all other Kind of small Works, by which the Artificers acquire many Thousands in the Year, owing to the common Negligence or Ignorance of the Buyers or Wearers: But as any one may have ample Remedy, by first getting the Commodity assay'd, and then by Action, Indictment, or Information, so it is left to the Injured to consider how far they will suffer themselves to be defrauded with Impunity.

As to bad Money, it may be in Weight or Quantity, as well as in Alloy or Quality. The Weight of gold Coin may be leffened either with filing or Diffolution, and either so as not readily to be perceived; as to the Manner of its being done is not proper to make public, as too many know it already. The Quality is observed before to be proved by Assay, and the Quantity must be judged of by the Weight already given. Besides these, an Artist can gild to so high Persection, as to stand the Test of the common Touch: If this be suspected, you must file the Edge before you try the Touch, as is directed in the Case of Silver; or try it by the Standard-weight, or both occasionally.

As to filver Coin, it being not above a fifteenth Part equally valuable as Gold, or thereabouts, needs not so attentive a Regard, and will sufficiently prove its Badness, if base, by the Chink, as not sounding upon a Table like Silver; especially if it be of other Metal plated over, then the Sound will be dead and flat, by Reason of its Disunion from what it is laid upon; and if it be mixed and of a very gross Alloy, it may be discovered by the Impurity of its

Aspect, and at last you have the Remedy of the Goldsmith's Tool, the File, and the Touch, as before directed. However you must observe, that even pure Standard Coin will not sound in the Chinking, if it be flawed.

The Value of Gold has put the Ingenious upon all experimental Methods of Ascertainment; and in Consequence its Weight has been fixed, by proportioning it to the Gravity of other Bodies; which thoroughly understood and attended to by those who deal much in foreign Gold and Silver, especially on the Guinea Cost and in China, will need no other Assay for the knowing of pure Gold. The Proportions are,

Water to Gold as 19,636 to 1000.

Hence the specific Gravity proportionate of several Metals by this Means determined, stand thus;

```
Gold — 19,636 — Iron — 7,852
Quickfilver 14,019 — Tin — 7,321
Common Lead — 11,345 — Diamond 3,400
Standard Silver — 10,535 — Water — 1,000
Copper -- 8,843 — Air — \frac{3}{17} Gr. 1 \frac{1}{5} N.
```

When reduced into the cubical Inch their Weights are

Gold —	-	12	Ounces	-	2	Drachms	_	52	Grains
Quickfilver	_	8	_	-	6		_	8	-
Lead —	-	7	-	_	3		_	30	\ -
Silver —	_	6	_	-	5			28	_
Copper		_							
Iron —	-	5	-	-	I	-	-	24	-
Tin —	_	4	-	_	6	-	-	7	-

Metals against Water, that it be not highly impregnated with any Kind of Mineral or other Impurities, it having been demonstrated that even River-water weighs more by 3 Pound in 53 than Rain-water; so that where clear Water cannot be had, it may be best to throw out the Fraction, and balance only by 19 to 1.

Mr. VAUGHAN supposes that ARCHIMEDES, by an Experiment of this Kind, discovered the Quantity of Alloy put by the Workmen into the Crown of Gold made for HIERON King of SYRACUSE.

And that it is in this Manner the CHINESE reconcile themselves to the Disuse of coined Money, and traffic in Metals by Measure and Weight apportioned, as first reducing the Gold to Powder, they measure and weigh it mechanically, and from thence readily conclude what Alloy or Mixture is therein.

It is certainly a Practice of ancient Date, and respected many Things as well as Money, as we find the same considered by the Reverend Mr. BARLOW in the Philosophical Transactions, whose Manner of stating it, is to the following Effect:

A cubic Foot of Water weighs, Pounds 62 8 Ounces which multiplied by 32 produces — 2000 or a Ton-weight.

Agreeable whereto are Liquid-measures accommodated.

Eight cubic Feet of Water — I Hogshead,

Four Hogsheads — — I Ton,

In Capacity and Denomination as well as Weight.

Dry-measure on the same Model.

A Bushel of Wheat as the common Standard 62 8 _____

Eight of such Bushels — I Quarter, Four Quarters — I Ton.

(1) The Chaldron of Coals was likewise intended to be equal to a Ton-weight, and may be so still in some Cases; and the Excess perhaps owing to the giving of heaped instead of stricken Measure: So in Wheat, there is in many Countries an Excess of 1/5 Part, owing probably at first to a benevolent Custom of throwing in a Blessing, as a Donative over and above the Measure is usually

(1) If a Chaldron of Coals was originally equal to a Ton-weight, then either the Weight of the Bushel is less than that of Wheat, or the Quantity of Bushels have been increased; as 36 Bushels, the Quantity in the present Chaldron, at 62 lb. 8 oz. to the Bushel, being 250 lb. or four Bushels over the Ton-weight: Therefore either the Number of Bushels have been increased, as in the Measures and Weights above, or a Bushel of Coals will be only 55 30 Pounds Avoirdupois. But as Mr. Barlow's Calculation, and other concurrent Circumstances presenting, it evidently appears, that the Standard Weight for a Bushel was 62 lb. 8 oz. and 32 such Bushels a Ton. So if Coals, or Grain in the Capacity of a Bushel, did not weigh 62 lb. 8 oz. the Bushel was to be judged of by the Weight, not by the Capacity; as indeed it was impossible to find Coals or Grain in an ascertained equal Measure, exactly accommodated to the Standard: So that Weight alone must be the Rule of judging what the Quantity ought to be in Measure. Therefore, if 32 Bushels of any Commodity does not weigh a Ton, so much more should be added as may complete that Weight.

The same Observation may be of Use in Respect to the specific Gravity of Bodies before-mentioned, and great Caution and Judgment necessary in the proportioning of them to each other, lest we therefrom make mistaken Calculations to our Prejudice, or to the Prejudice of others, as in Lead, Tin, Iron, Copper, &c. They are not in all Places of equal Gravity, or not refined as Gold and Silver is to a certain Standard: Nor is Air and Water at all Times and in all Places of equal Gravity; for which Reason great Care must be had not to take these Things absolutely from single Experiment, or to depend wholly on Theory.

called: And as Donatives of this Kind usually grow upon the Seller, at length to the increasing of the Bushel to five Pecks, so it has utterly destroyed the Analogy, and therefore ought to be reduced back to the original Standard. So again in Weights, by certain partial Allowances, the Hundred has acquired three different Denominations, and thereby rendered, as to this Purpose, quite incommensurate.

The old Standards falling into round Numbers, Mr. BARLOW feems to think happened luckily: But it may be feen in the Introduction, in respect to the old Money-standard, that it was the Wisdom of our Ancestors, to regulate by round Numbers, for a very honest Reason, viz. that the Ignorant in Arithmetic might not be injured by the Skilful in Fractions, and one common Standard equally known and easy to all, and clearly indisputable. I am therefore humbly of Opinion, that Care was taken to find out what Proportions would fall into round Numbers, that were adequate and commensurate, and thereupon established the Standards of Troy-weights, Avoirdupois-weights, and Measures.

It is with good Reason supposed by the same Gentleman, that Corn, and other Commodities, both dry and liquid, were formerly sold by Weight only, and that Measures were afterwards introduced for Convenience. It is, however, still the Practice of the ingenious Factor to buy Corn by Weight, though the Seller disposes of it by Measure. This the Purchaser performs by a Vehicle, the Contents whereof is a cubic Inch, filled with the Grain, and balanced in a fine gold Scale, by which he not only judges of the gross Weight on Delivery, but of the Goodness of the Grain before he purchases, and consequently its Value, according to the Market-price of the Day, as he finds the Weight in Proportion above or below 62 Pound 8 Ounces to the standard Bushel. And as it appears that the same Quantity of Liquor is a Ton, both in Weight and Measure, probably four Quarters of Grain had the same Appellation, which

readily accounts for what Measure the Quarter of Grain was the fourth Part, viz. of a Ton. It is hence, by the same Reverend Gentlemen very well observed, that it were to be wished, to avoid Consussion, that we might be obliged, by Law, to return back to this evidenced Analogy, and have again all our Weights and Measures equal and commensurate, the Monies on the Troy, and all other Things on the Avoirdupois Standard.

What our Standards are, as compared with each other, as also proportioned to those of France, will be seen in the following Disquisition, where I did not find it necessary to give other foreign Proportions, as the Reader will find that already done by the ingenious Author before he comes to this Part, which, I hope, will appear a full and satisfactory Completion of this Subject.

The Proportion of the English and French Weights, and of the English Weights to one another, as adjusted by the Royal Society.

Some curious Gentlemen of the Royal Society of London, and of the Royal Academy of Sciences at Paris, having proposed to their respective Bodies, that accurate Standards of the Weights and Measures of both Nations, carefully examined and made to agree with each other, might be laid up and preserved in the Archives of the Royal Society here, and in the Royal Academy at Paris, the same was accordingly put into Execution, and agreed thus;

Paris 2 Marks 16 Ounces Weight, contains English — 7560

English Troy Pound of 12 Ounces — 5760

So that the English Pound Troy is to the French Double Mark as 16 is to 21.

Again:

The Paris Ounce weighs English Troy Grains — 472.5

The English Troy Ounce contains — 480

K k

So that the English Troy Ounce is to the Paris Ounce as 64 to 63. (2)

The English Avoirdupois Pound weighs Troy Grains 7004
The Avoirdupois Ounce, 16 to the Pound = Troy Gr. 437—75
Consequently the Troy to the Avoirdupois Pound is as 88 to 107, nearly.

As also the Troy to the Avoirdupois Ounce, as 80 to 73, nearly.

Or thus, as to the Pounds;
As 88 to 107 — fo 5760 to 7003.636;

Or as to the Ounces; As 80 is to 73 — fo 480 to 438.

And the Avoirdupois Pound and Ounce to the Paris 2 Marks Weight and Ounce as 63 to 68 nearly;

For as 63 to 68 — fo 7004 to 7559.873.

But as some Gentlemen were desirous to know how far these Standards agreed with the Originals in the Exchequer, at Founders-HALL, and in the Tower, the following further Experiments were made in the Presence of several Persons of Distinction.

At the Exchequer.

A large BALANCE, loaded with fifteen Pounds at each End, turning with fix Grains, and a leffer Balance turning with 4 Grain, were used for this Purpose.

⁽²⁾ An Experiment made by our Author, 1738. I fent 2000 Pefos Mexican Dollars, weighing at Cadiz 234 Marks 4 Ounces, and at London 1735 Ounces, to Rouen, which in the Mint there weighed 220 Marks 3 Ounces, or 1763 Ounces, which corresponds with the above Proportion:

en en e grand e sant en				Tro	oy oz. d	wt. gr.
The Standar	d 14, and 1	Pound A	Avoird	upois equal to		
Troy Grains	s, whereof	480 are	contain	qual to — led in the Ou to the Pound	ince	
Again, th	ne 7 Pound	Bell Av	oirdup	Troy ois, equal to		dwt. gr.
Thus the A	voirdupois I	Pound equ	al to	- 7000. - 437·	7 54}Tro	y Grains.
	e fingle Bell	, Avoird	upois l	Pounds, by the	he finall	er Scales,
was found				Troy Ounce		-
	equal to	-	-	- 14	11	18
	or to and the O	unce to	_	=_		7002 437.62
The Bell A	voirdupois I	Pound, a	s abov	e — 7002	Solven	
	voirdupois P		_	— 6999.	5	
Difference And the O	of the flat an	d Bell P	ound	- 6999. - 2. - 437.	$\begin{bmatrix} 5 \\ 46 \end{bmatrix}$ Tro	y Grains.

The Royal Society's Avoirdupois Pound less than the Exchequer Bell Pound 1 Grain,

And their Troy Pound less than the 8, and 4 Ounce together Troy Pound less than the 8, and 4 Ounce together Troy Pound less than the 8, and 4 Ounce together

At FOUNDERS-HALL.

They have from the Exchequer sealed a Pile of flat Brass Troy-Weights, from CCLVI Ounces down to the 16th Part of an Ounce: As also a Set of Bell Brass Avoirdupois Weights, sealed in the same Manner; and the large and small Balance as above: And here it was found on a Medium of sour Trials, that 15 Pounds Avoirdupois was counterpoised by 218 Troy Ounces, 15 Penny-weight, and 23 Grains: Whence the Avoirdupois Pound is sound equal to 7001.53, and the Ounce to 437.59 Troy Grains.

The Arch County was			Troy Our	nce dwt.	gr.
The Avoirdupois fing	le Poun	d equal to	- 14	11	16 1
Or was equal to	_	_	-	_	7000.5
And the Ounce to	-	c1 _	-	pinionA	437-53

This Standard Avoirdupois Pound at a Medium, as before, out-weighed the Royal Society's Avoirdupois Pound by 2 ½ Grains; and the Troy Standards of 8 and 4 Ounces taken together out-weigh'd the Royal Society's fingle Troy Pound by 2 ½ Grains at a like Medium.

At his Majesty's Mint in the Tower.

Their Standard Weights are a Pile of hollow Troy-weights, cclvi Ounces down to the 16th Part of an Ounce, without any Pennyweights or Grains.

The Royal Society's whole Pound weighed less by 2 1/2 Grains than the Standard 8 and 4 Ounce Weights together.

The Royal Society's Avoirdupois Pound, weighed

			oz.	dwt.	gr.
Troy Weight b	y these Standards -	-	14	11	16 1
Or —				7	000.87

The Royal Society's Pile of 16 Ounces Troy less than 16 Ounces these Standards — Grains 4 ½

And

And the Society's 8 Ounce and 4 Ounce-weight together less than their single Troy Pound-weight by 4 of a Grain. (3)

And here I have only left to add, that, for the better understanding our Money-weights, and how the same are varied in Denomination or compounded from, the Reader will be pleased to observe, that the Pound-weight Troy is thus divided and reduced into the lowest Quantities and Denominations in Use at the Mint.

	[12 Ounces	-		r Pound,
	20 Penny-wei	ght	-	r Ounce,
	24 Grains	_	_	1 Penny-weight,
Troy .	20 Mites	_	_	r Grain,
	24 Droits	_	_	r Mite,
	20 Periots	_	_	1 Droit,
The second secon	24 Blanks	A THE RESERVE	212 769	1 Periot.

These are again for the weighing of Gold compounded into Caracts; and stand thus in Pound and Ounce Caracts:

Pound Caracts.

24	Caract	S	_	is	12	Ounces	Troy,			of bolls
1	Caract		_	is	4	Grains,				
I	Caract	Grai	n	is	2	Penny-	weight	12	Grains	Troy,
						-	OF THE STREET,			antility.
4	Ditto	_	_	is	_	-	-	15.		

(3) During my Residence in Spain, I observed that every Year, there was something to rectify in Peoples Weights, and that Spanish Dollars consequently were of more or less Value. I suspected this to be a Management of the Contraiste at Cadiz, who is the Inspector of Weights, and that he made now and then some little Alteration, for the Sake of having more Business, or for other partial Reasons, which however but ill suits the Exactness requisite in commercial Transactions. It is much to be wished, that every Nation had a certain immutable Standard of both Weights and Measures, and the Proportions to each other regularly adjusted. N. M.

Ounce

Ounce Caracts.

24 Caracts — is 1 Ounce Troy,

1 Caract — is 4 Grains,

1 Caract Grain is 5 Grains Troy,

1 Ditto — is 2 1 Ditto,

Ditto - is 1 1 Ditto.

The Goldsmiths Weights are made, compounded, and denominated thus: From the Standard at Goldsmiths-Hall, into Grains, Penny-weights, Drachms, Ounces and Pounds, and vary from the first Table only in the Denomination of Drachms, which Drachm is equal to one Penny-weight and fix Grains Troy; and consequently fixteen such Drachms make an Ounce Troy.

The Grains are usually proportioned from half a Grain to fix Grains, and should be marked with as many O's as there are Grains, and each Piece with a G coronetted.

The Penny-weights are usually proportioned from an Half to Five, and the Quantity each contains marked with so many O's, and the Portrait of a Lion on every Piece.

The Ounce-weights are proportioned from a Drachm to 32 or sometimes to 64 Ounces; thus,

A Drachm,
Half-quarter of an Ounce,
Quarter of an Ounce,
Half an Ounce,
One Ounce,
Two Ounces.

And so every one double the Weight of the next; and every one from an Ounce upwards are marked with numerical Letters of such Number as the Piece contains Ounces; and also with the combined Letters R, for Troy; and are, or should be, marked with a Lion and Leopard's Head crowned.

The Pound-weights are proportioned from one Pound, or 12 Ounces Troy, to 32 Pounds, or sometimes higher; and each double the Weight of the next leffer, as in the Ounce-weights, and should have the same proportionate Marks.

The Reason of being so circumstantial, in Respect to Weight and Measure is, not only to instruct the young Trader in a certain Specie of Knowledge, essentially necessary in a Course of Business, but also to intimate more strongly the apparent Necessity of a general Regulation; which, if obtained, will materially contribute to the adjusting of the Analogy between Great-Britain and those Nations with whom we trade, free from the unnecessary Perplexity of disfuse Calculation, and at the same Time dissolve many of the Difficulties, which has occasioned the Construction of the preceding Performance.

And he court one double the Weightest the next a sid every one from an Ourser apwards are marked with numerical Letters of four Number as the first special Ourses, and also with the com-level Lines in the from land and and also with the com-level Lines in the from and Leopard's Plant growned.

The Pocus averages are proportional from one Pound, or 12 Opposes They, so 44 founds, or torgetimes higher; and each double the Weight of the care beller, as in the Oppose weights, and though have the time proposecous Marks.

The Resident of Issing the entransitancial, in Refrect to Weight and Market to the point the property of the second Market to the point of the second Market to the second Market in a Courie of Business and Market to the interest through the apparent Necessity of a second mental Republication white a society of the second Market to the Analysis of the Admires of the Analysis between Great Business and those Market to the free tree from the factor of the property of the first three from the first three tree tree after the factor of the free the first three from this observation of the free first three from this observation of the proceeding the free from the free from the free from the first three from the first observations.

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